Foreword

Welcome to the growing family of new NISSAN owners. This vehicle is delivered to you with confidence. It was produced using the latest techniques and strict quality control.

This manual was prepared to help you understand the operation and maintenance of your vehicle so that you may enjoy many miles of driving pleasure. Please read through this manual before operating your vehicle.

A separate Warranty Information Booklet explains details about the warranties covering your vehicle. The NISSAN Service and Maintenance Guide explains details about maintaining and servicing your vehicle. Additionally, a separate Customer Care/Lemon Law Booklet (U.S. only) will explain how to resolve any concerns you may have with your vehicle, as well as clarify your rights under your state's lemon law.

Your NISSAN dealer knows your vehicle best. When you require any service or have any questions, we will be glad to assist you with the extensive resources available for you.

READ FIRST — THEN DRIVE SAFELY

Before driving your vehicle please read your Owner's Manual carefully. This will ensure familiarity with controls and maintenance requirements, assisting you in the safe operation of your vehicle.

⚠ WARNING

IMPORTANT SAFETY INFORMATION
REMINDERS FOR SAFETY!

Follow these important driving rules to help ensure a safe and comfortable trip for you and your passengers!

- **NEVER drive under the influence of alcohol or drugs.**
- **ALWAYS observe posted speed limits and never drive too fast for conditions.**
- **ALWAYS give your full attention to driving and avoid using vehicle features or taking other actions that could distract you.**
- **ALWAYS use the seat belts. Refer to "Child safety" and "Child restraints" in the "Safety — seats, seat belts and supplemental restraint system" section for precautions regarding children.**
- **ALWAYS provide information about the proper use of vehicle safety features to all occupants of the vehicle.**
- **ALWAYS review this Owner's Manual for important safety information.**

Information Provided by:
DEALER E-PROCESS

MODIFICATION OF YOUR VEHICLE

This vehicle should not be modified. Modification could affect its performance, safety or durability, and may even violate governmental regulations. In addition, damage or performance problems resulting from modification may not be covered under NISSAN warranties.

WHEN READING THE MANUAL

This manual includes information for all options available on this model. Therefore, you may find some information that does not apply to your vehicle.

All information, specifications and illustrations in this manual are those in effect at the time of printing. NISSAN reserves the right to change specifications or design at any time without notice.

IMPORTANT INFORMATION ABOUT THIS MANUAL

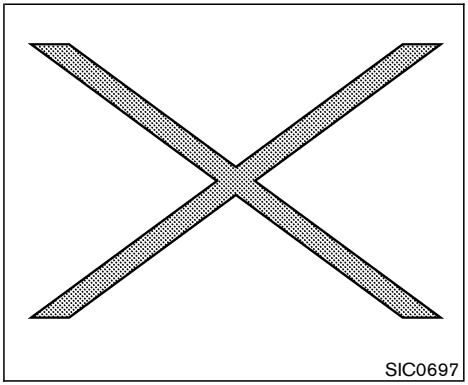
You will see various symbols in this manual. They are used in the following ways:

WARNING

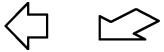
This is used to indicate the presence of a hazard that could cause death or serious personal injury. To avoid or reduce the risk, the procedures must be followed precisely.

CAUTION

This is used to indicate the presence of a hazard that could cause minor or moderate personal injury or damage to your vehicle. To avoid or reduce the risk, the procedures must be followed carefully.



If you see this symbol, it means **Do not do this** or **Do not let this happen**.



If you see a symbol similar to these in an illustration, it means the arrow points to the front of the vehicle.

Arrows in an illustration that are similar to these indicate movement or action.

Arrows in an illustration that are similar to these call attention to an item in the illustration.

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DEALER E-PROCESS

CALIFORNIA PROPOSITION 65 WARNING

WARNING

Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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TOKYO, JAPAN

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NISSAN CUSTOMER CARE PROGRAM

NISSAN CARES ...

Both NISSAN and your NISSAN dealer are dedicated to serving all your automotive needs. Your satisfaction with your vehicle and your NISSAN dealer are our primary concerns. Your NISSAN dealer is always available to assist you with all your automobile sales and service needs.

However, if there is something that your NISSAN dealer cannot assist you with or you would like to provide NISSAN directly with comments or questions, please contact our (NISSAN's) Consumer Affairs Department using our toll-free number:

For U.S. customers
1-800-NISSAN-1
(1-800-647-7261)
For Canadian customers
1-800-387-0122

The Consumer Affairs Department will ask for the following information:

— Your name, address, and telephone number
— Vehicle identification number (on dash panel)
— Date of purchase
— Current odometer reading
— Your NISSAN dealer's name
— Your comments or questions

OR

You can write to NISSAN with the information on the left at:

For U.S. customers
Nissan North America, Inc.
Consumer Affairs Department
P.O. Box 685003
Franklin, TN 37068-5003
For Canadian customers
Nissan Canada Inc.
5290 Orbitor Drive
Mississauga, Ontario L4W 4Z5

We appreciate your interest in NISSAN and thank you for buying a quality NISSAN vehicle.

Information Provided by:
DEALER E-PROCESS

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Information Provided by: DEALER

Information Provided by:
DEALER
E-PROCESS

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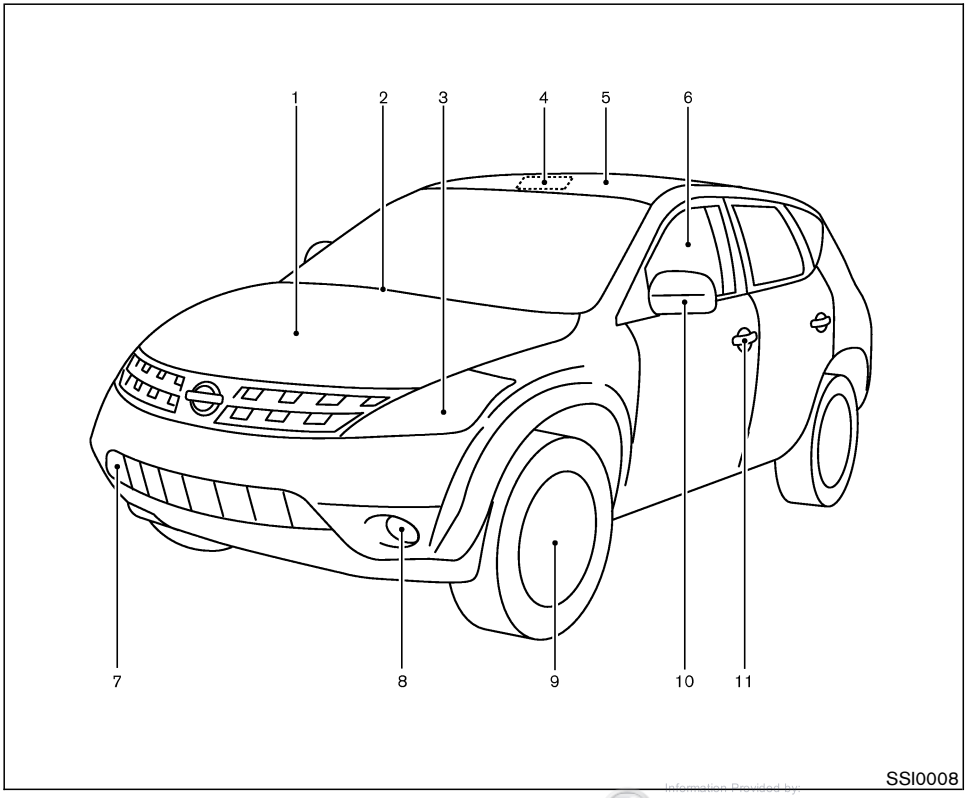
EXTERIOR FRONT



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*: if so equipped

Information Provided by:
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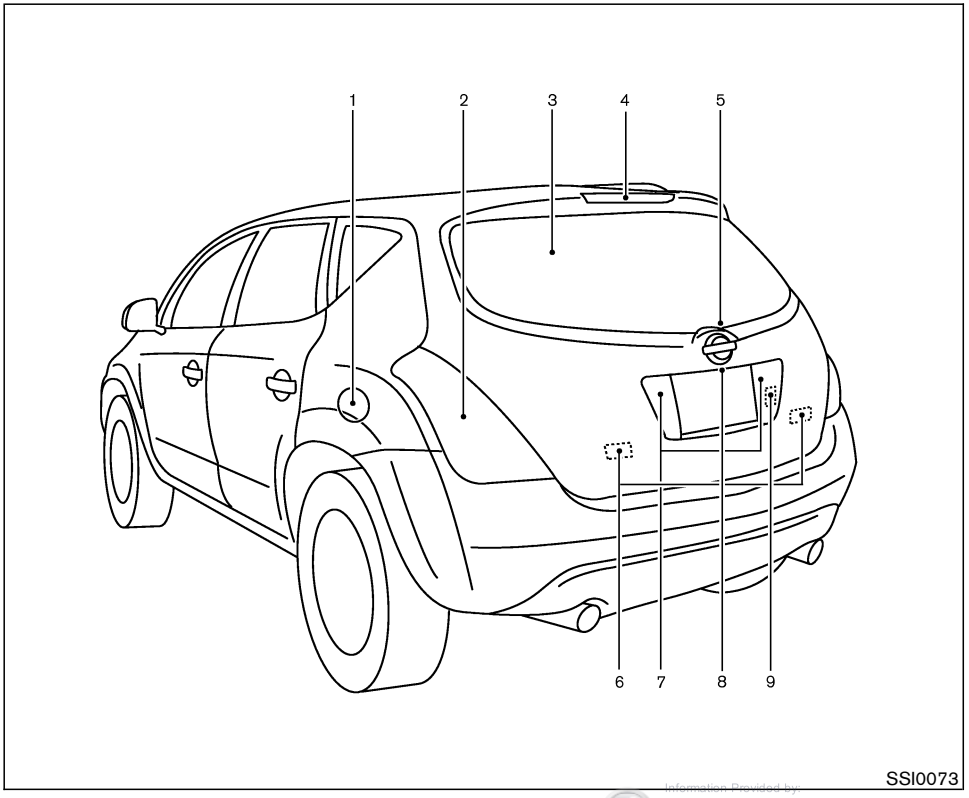
EXTERIOR REAR



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*: if so equipped

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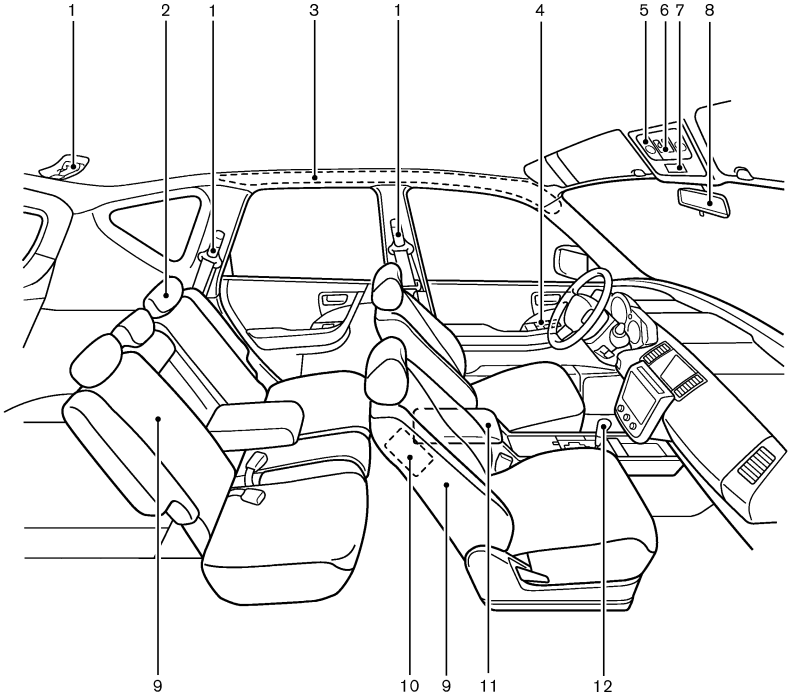
PASSENGER COMPARTMENT



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*: if so equipped

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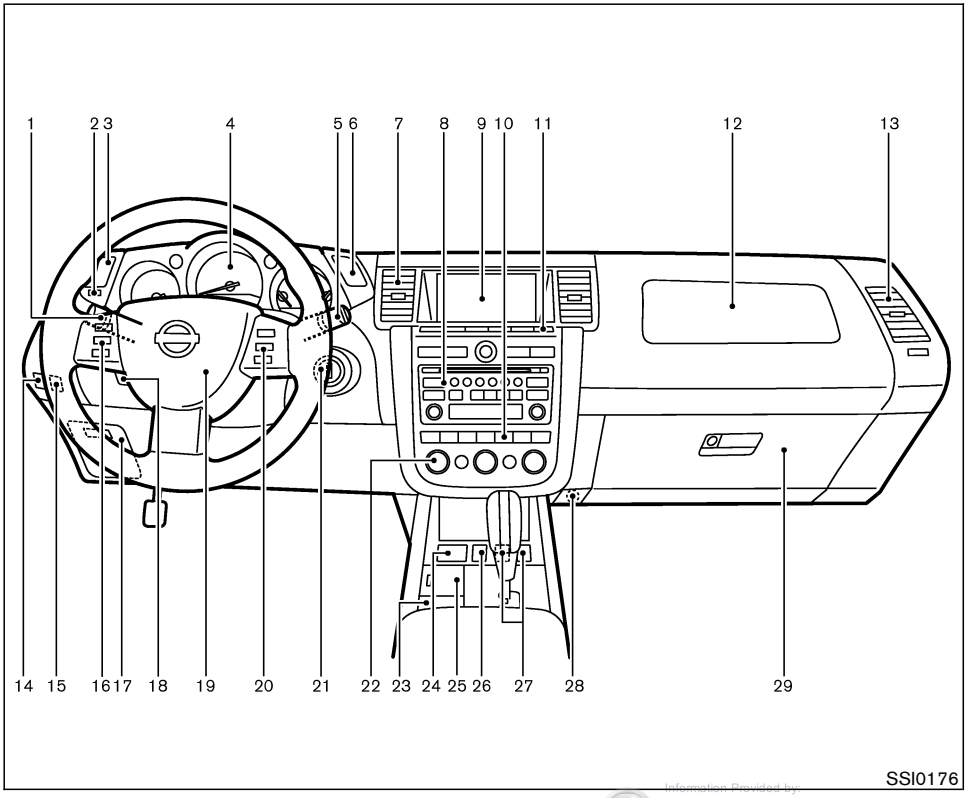
INSTRUMENT PANEL



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*: if so equipped

*1: Refer to the separate Navigation System Owner's Manual.

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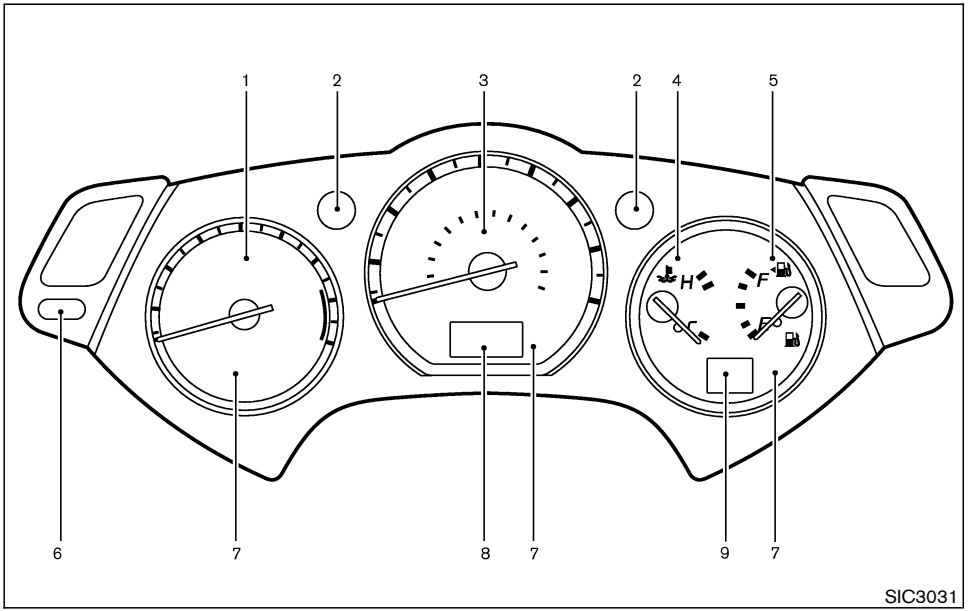
METERS AND GAUGES



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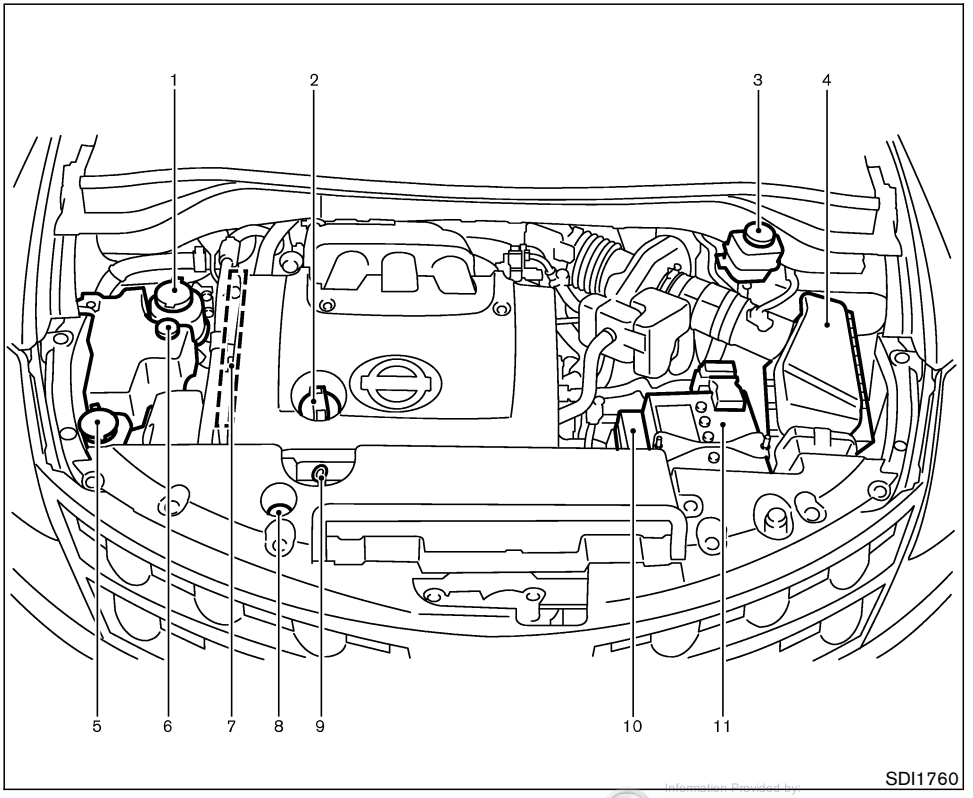
ENGINE COMPARTMENT CHECK LOCATIONS



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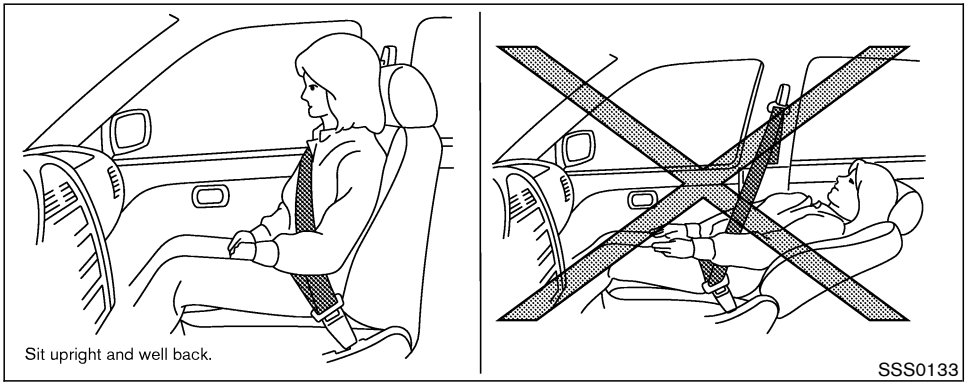

WARNING

- Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.
- For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back in the seat with both feet on the floor and adjust the seat belt properly. See “Precautions on seat belt usage” later in this section.
- After adjustment, gently rock in the seat to make sure it is securely locked.
- Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.

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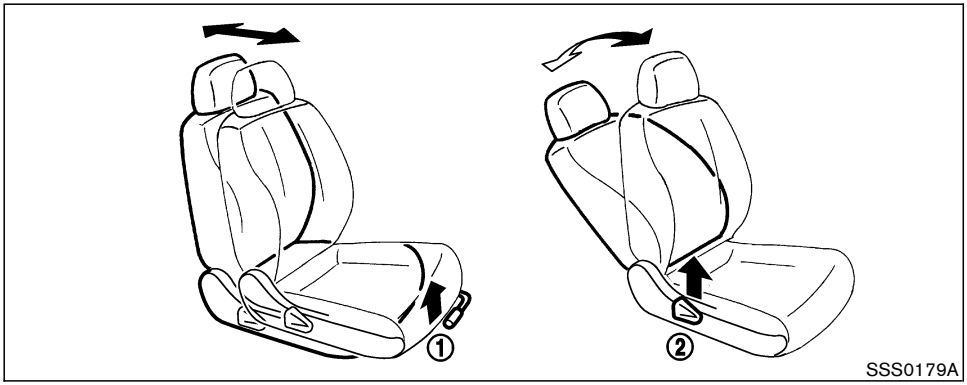

FRONT MANUAL SEAT ADJUSTMENT

Forward and backward

Pull the lever up (1) while you slide the seat forward or backward to the desired position. Release the lever to lock the seat in position.

Reclining

To recline the seatback, pull the lever up (2) and lean back. To bring the seatback forward again, pull the lever and move your body forward. The seatback moves forward.

The reclining feature allows adjustment of the seatback for occupants of different sizes for added comfort and to help obtain proper seat belt fit. (See “Precautions on seat belt usage” later in this section.) The seatback may also be reclined to allow occupants to rest when the vehicle is parked.

FRONT POWER SEAT ADJUSTMENT

Operating tips

- The seat motor has an auto-reset overload protection circuit. If the motor stops during operation, wait 30 seconds, then reactivate the switch.
- Do not operate the power support seat for a long period of time when the engine is off. This will discharge the battery.

See “Automatic drive positioner” in the “3. Pre-driving checks and adjustments” for automatic drive positioner operation.

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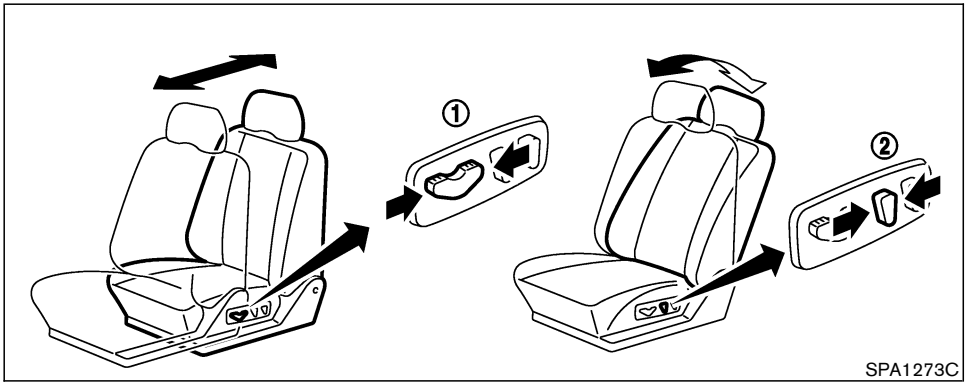


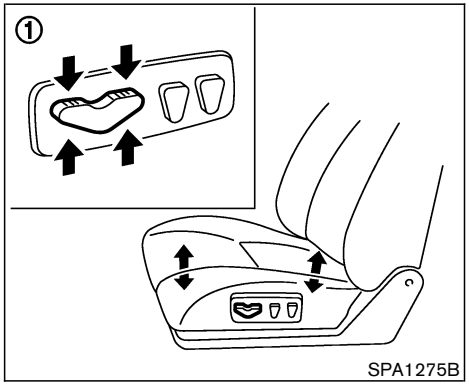
Forward and backward

Moving the switch ① forward or backward will slide the seat forward or backward to the desired position.

Reclining

Move the recline switch ② backward until the desired angle is obtained. To bring the seatback forward again, move the switch forward. The seatback will move forward.

The reclining feature allows adjustment of the seatback for occupants of different sizes for added comfort and to help obtain proper seat belt fit. (See “Precautions on seat belt usage” later in this section.) The seatback may also be reclined to allow occupants to rest when the vehicle is parked.



Seat lifter (if so equipped for driver’s seat)

1. Pull up or push down the switch ① to adjust the seat height.
2. Tilt up or down the switch ① to adjust the seat angle.

Information Provided by:
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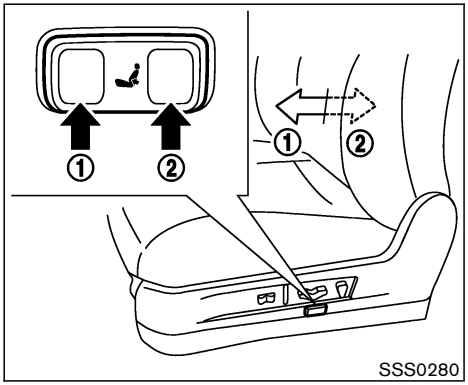
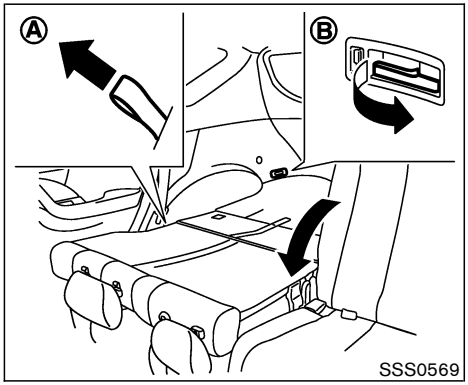


Lumbar support (if so equipped for driver's seat)

The lumbar support feature provides lower back support to the driver. Push each side of the switch to adjust the seat lumbar area.



REAR SEAT ADJUSTMENT

Folding

1. Secure the seat belt at the belt hooks on the side wall. See "Seat belt hook" later in this section.
2. Secure the center seat belt and tongues into the retractor base. See "Stowing rear center seat belt" later in this section.
3. Put the seat belt buckles into the seat cushion.
   See "Storing rear seat belt buckles" later in this section.
4. Remove the head restraints. See "Head restraint adjustment" later in this section.
5. Remove any cups from the rear cup holder and make sure the rear cup holder is empty.
6. Close the tonneau sub cover (if so equipped) from each rear seatback.
7. Pull the strap on the rear seat Ⓐ or pull the lever Ⓑ beside the cargo area and fold the seatback.
8. When returning the seatbacks, be sure to install the head restraints and attach the rear center seat belt connector.

⚠ WARNING

- **Never allow anyone to ride in the cargo area or on the rear seat when it is in the fold-down position. Use of these areas by passengers without proper restraints could result in serious injury in an accident or sudden stop.**
- **It is extremely dangerous to ride in a cargo area inside of a vehicle. In a collision, people riding in these areas**

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are more likely to be seriously injured or killed.

- Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts. Be sure everyone in your vehicle is in a seat and using a seat belt properly.
- Do not fold down the rear seats when occupants are in the rear seat area or any luggage is on the rear seats.
- Head restraints should be adjusted properly as they may provide significant protection against injury in an accident. Always replace and adjust them properly if they have been removed for any reason.
- If the head restraints are removed for any reason, they should be securely stored to prevent them from causing injury to passengers or damage to the vehicle in case of sudden braking or an accident.
- Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.
- When returning the seatbacks to the upright position, be certain they are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.
- When returning the seatbacks, be sure to attach the rear center seat belt connector.
- Do not unfasten the rear center seat belt connector except when folding down the rear seat.
- Do not remove the head restraints except when folding down the rear seat or using certain child restraints.
- When attaching the rear center seat belt connector, be certain that the seatbacks are completely secured in the latched position and the rear center seat belt connector is completely secured.
- If the rear center seat belt connector and the seatbacks are not secured in the correct position, serious personal injury may result in an accident or sudden stop.

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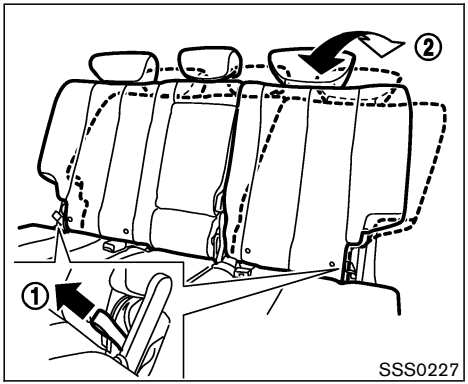


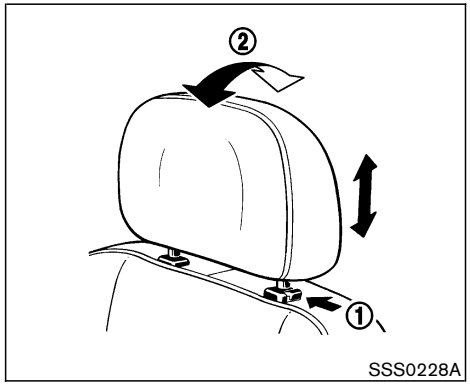
Reclining

Pull the reclining strap ① and position the seat back at the desired angle ②. Release the reclining strap ① after positioning the seat at the desired angle.

The reclining feature allows adjustment of the seatback for occupants of different sizes to help obtain proper seat belt fit. (See “Precautions on seat belt usage” later in this section.) The seatback may also be reclined to allow occupants to rest when the vehicle is parked.

⚠ WARNING

- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back in the seat and adjust the seat belt properly. See “Precautions on seat belt usage” later in this section.**
- **After adjustment, check to be sure the seat is securely locked.**



HEAD RESTRAINT ADJUSTMENT

To raise the head restraint, just pull it up.

To lower, push the lock knob ① and push the head restraint down.

To tilt the head restraint ②, push it in the direction required (if so equipped).

To remove the head restraint when folding down the rear seat or using certain child restraints, push the lock knob ① and pull the head restraint out.

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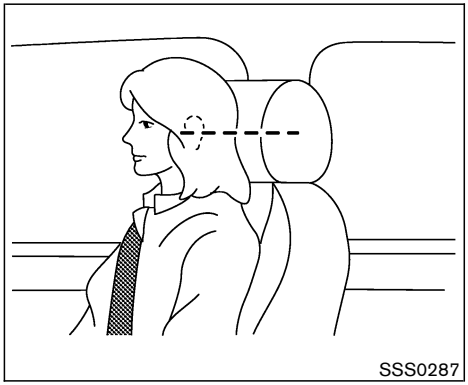
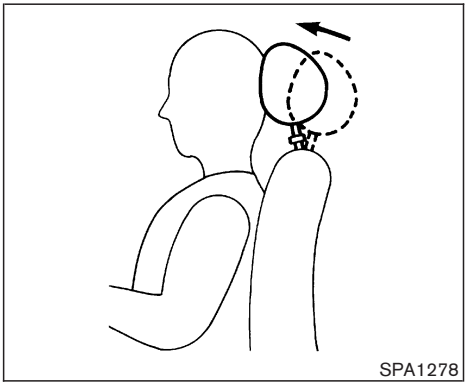
WARNING

- **Head restraints should be adjusted properly as they may provide significant protection against injury in an accident. Check the adjustment after someone else uses the seat.**
- **Do not remove the head restraints except when folding down the rear seat or using certain child restraints. Always replace and adjust them properly if they have been removed for any reason.**
- **If the head restraints are removed for any reason, they should be securely stored to prevent them from causing injury to passengers or damage to the vehicle in case of sudden braking or an accident.**



Adjust the head restraints as illustrated so the center is level with the center of your ears.



ACTIVE HEAD RESTRAINT (front seats)

WARNING

- **Always adjust the head restraints properly as specified in the previous section. Failure to do so can reduce the effectiveness of the active head restraint.**
- **Active head restraints are designed to supplement other safety systems.**

Information Provided by:
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Always wear seat belts. No system can prevent all injuries in any accident.

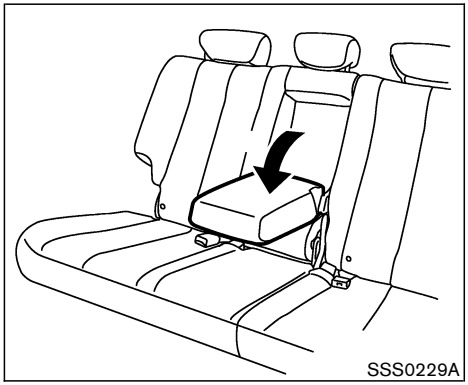
- **Do not attach anything to the head restraint stalks. Doing so could impair active head restraint function.**

The head restraint moves forward utilizing the force that the seatback receives from the occupant in a rear-end collision. The movement of the head restraint helps support the occupant's head by reducing its backward movement and helping absorb some of the forces that may lead to whiplash type injuries.

Active head restraints are effective for collisions at low to medium speeds in which it is said that whiplash injury occurs most.

Active head restraints operate only in certain rear-end collisions. After the collision, the head restraints return to their original positions.

Properly adjust the active head restraints as described in the previous section.



ARMREST

Pull the armrest forward until it is horizontal.

PRECAUTIONS ON SEAT BELT USAGE

If you are wearing your seat belt properly adjusted and you are sitting upright and well back in your seat with both feet on the floor, your chances of being injured or killed in an accident and/or the severity of injury may be greatly reduced. NISSAN strongly encourages you and all of your passengers to buckle up every time you drive, even if your seating position includes a supplemental air bag.

Most states, provinces or territories require that seat belts be worn at all times when a vehicle is being driven.

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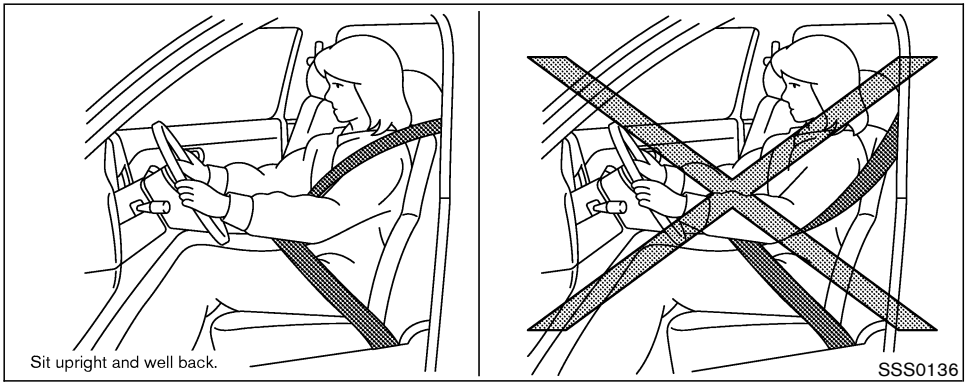

⚠ WARNING

- Every person who drives or rides in this vehicle should use a seat belt at all times. Children should be properly restrained in the rear seat and, if appropriate, in a child restraint.
- The seat belt should be properly adjusted to a snug fit. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident. Serious injury or death can occur if the seat belt is not worn properly.
- Always route the shoulder belt over your shoulder and across your chest. Never run the belt behind your back, under your arm or across your neck. The belt should be away from your face and neck, but not falling off your shoulder.
- Position the lap belt as low and snug as possible AROUND THE HIPS, NOT THE WAIST. A lap belt worn too high could increase the risk of internal injuries in an accident.
- Be sure the seat belt tongue is securely fastened to the proper buckle.
- Do not wear the seat belt inside out or twisted. Doing so may reduce its effectiveness.
- Do not allow more than one person to use the same belt.
- Never carry more people in the vehicle than there are seat belts.
- If the seat belt warning light glows continuously while the ignition is turned ON with all doors closed and all seat belts fastened, it may indicate a malfunction in the system. Have the system checked by a NISSAN dealer.
- Once the pre-tensioner seat belt has activated, it cannot be reused and must be replaced together with the

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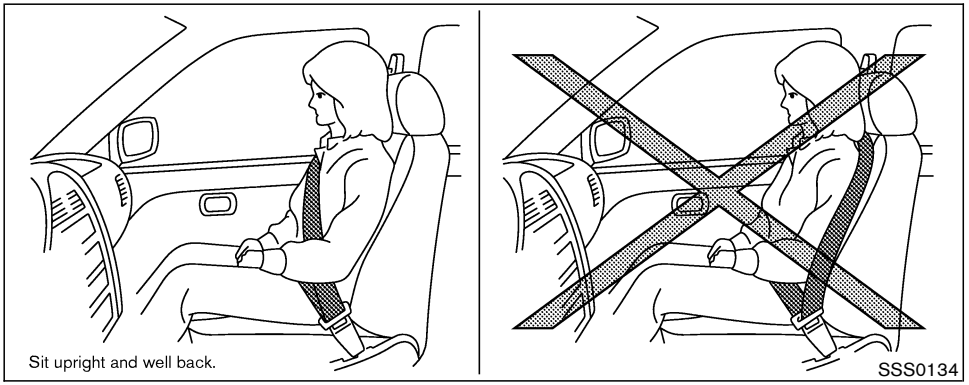
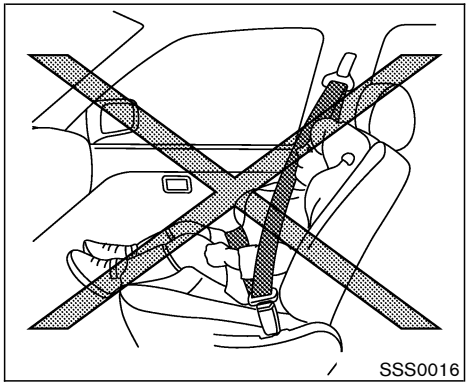
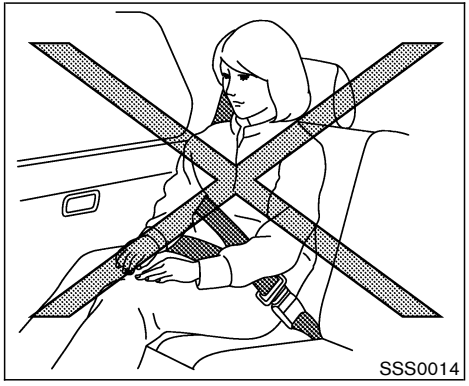




retractor. See a NISSAN dealer.

- Removal and installation of the pretensioner seat belt system components should be done by a NISSAN dealer.
- All seat belt assemblies, including retractors and attaching hardware, should be inspected after any collision by a NISSAN dealer. NISSAN recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.
- All child restraints and attaching hardware should be inspected after any collision. Always follow the restraint manufacturer's inspection instructions and replacement recommendations. The child restraints should be replaced if they are damaged.



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CHILD SAFETY

Children need adults to help protect them. They need to be properly restrained.

In addition to the general information in this manual, child safety information is available from many other sources, including doctors, teachers, government traffic safety offices, and community organizations. Every child is different, so be sure to learn the best way to transport your child.

There are three basic types of child restraint systems:

- Rear facing child restraint
- Front facing child restraint
- Booster seat

The proper restraint depends on the child's size. Generally, infants (up to about 1 year and less than 20 lb (9 kg)) should be placed in rear facing child restraints. Front facing child restraints are available for children who outgrow rear facing child restraints and are at least 1 year old. Booster seats are used to help position a vehicle lap/shoulder belt on a child who can no longer use a front facing child restraint.

WARNING

Infants and children need special protection. The vehicle's seat belts may not fit them properly. The shoulder belt may come too close to the face or neck. The lap belt may not fit over their small hip bones. In an accident, an improperly fitting seat belt could cause serious or fatal injury. Always use appropriate child restraints.

All U.S. states and Canadian provinces or territories require the use of approved child restraints for infants and small children. (See "Child restraints" later in this section.)

Also, there are other types of child restraints available for larger children for additional protection.

NISSAN recommends that all pre-teens and children be restrained in the rear seat. According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat. This is especially important because your vehicle has a supplemental restraint system (air bag system) for the front passenger. See "Supplemental restraint system" later in this section.

Infants

Infants up to at least one year old should be placed in a rear facing child restraint. NISSAN recommends that infants be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint which fits your vehicle and always follow the manufacturer's instructions for installation and use.

Small children

Children that are over one year old and weight between 20 lbs (9 kg) and 40 lbs (18 kg) can be placed in a forward facing child restraint. Refer to the manufacturer's instructions for minimum and maximum weight and height recommendations. NISSAN recommends that small children be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use.

Larger children

Children who are too large for child restraints should be seated and restrained by the seat belts which are provided. The seat belt may not fit properly if the child is less than 4 feet 9 inches (142.5 cm) tall and weighs between 40 lbs (18 kg) and 80 lbs (36 kg). A booster seat should be used to obtain proper seat belt fit.

NISSAN recommends that a child be placed in a commercially available booster seat if the shoulder belt in the child's seating position fits close to the face or neck or if the lap portion of the seat belt goes across the abdomen. The booster seat should raise the child so that the shoulder belt is properly positioned across the top, middle portion of the shoulder and the lap belt is low on the hips. A booster seat can only be used in seating positions that have a three-point type seat belt. The booster seat should fit the vehicle seat and have a label certifying that it complies with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. Once the child has grown so the shoulder belt is no longer on or near the face and neck, use the shoulder belt without the booster seat.

WARNING

Never let a child stand or kneel on any seat and do not allow a child in the cargo areas while the vehicle is moving. The child could be seriously injured or killed in an accident or sudden stop.

PREGNANT WOMEN

NISSAN recommends that pregnant women use seat belts. The seat belt should be worn snug, and always position the lap belt as low as possible around the hips, not the waist. Place the shoulder belt over your shoulder and across your chest. Never run the lap/shoulder belt over your abdominal area. Contact your doctor for specific recommendations.

INJURED PERSONS

NISSAN recommends that injured persons use seat belts, depending on the injury. Check with your doctor for specific recommendations.

THREE-POINT TYPE SEAT BELT WITH RETRACTOR

WARNING

- **Every person who drives or rides in this vehicle should use a seat belt at all times.**
- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back in the seat with both feet on the floor and adjust the seat belt properly.**

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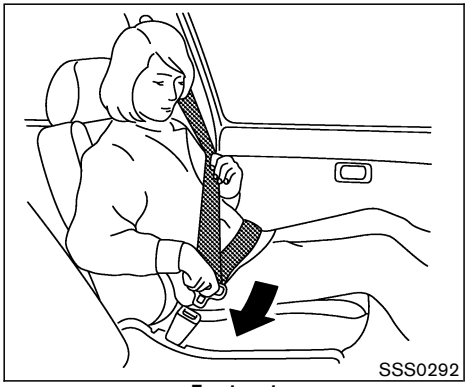


Front seat

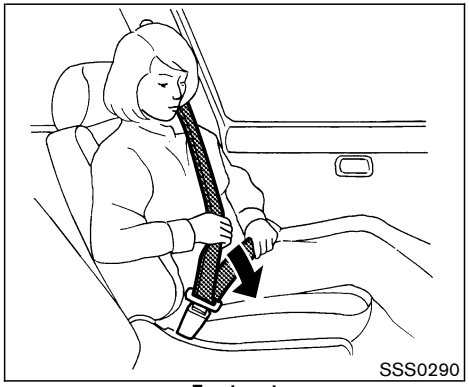
Fastening the seat belts

1. Adjust the seat. See “Seats” earlier in this section.
2. Slowly pull the seat belt out of the retractor and insert the tongue into the buckle until it clicks. For additional information regarding the rear center seat belt, see “Rear center seat belt” later in this section.

- **The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion will permit the belt to move, and allow you some freedom of movement in the seat.**

Rear seat

- **If the seat belt cannot be pulled from its fully retracted position, firmly pull the belt and release it. Then smoothly pull the belt out of the retractor.**



Front seat

3. Position the lap belt portion **low and snug on the hips** as shown.
4. Pull the shoulder belt portion toward the retractor to take up extra slack. Make sure the shoulder belt is routed over your shoulder and across your chest.

The front passenger and rear seat belts have a locking mechanism for child restraint installation. It is referred to as the automatic locking mode.

When the locking mechanism is activated the seat belt cannot be extended again until the seat belt tongue is detached from the buckle and fully retracted. For additional information, see “Child

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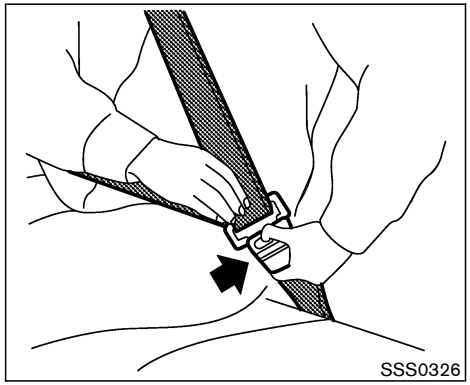
Rear seat

restraints" later in this section.

The automatic locking mode should be used only for child restraint installation. During normal seat belt use by a passenger, the locking mode should not be activated. If it is activated it may cause uncomfortable seat belt tension. It can also change the operation of the front passenger air bag. See "Front passenger air bag and status light" later in this section.

WARNING

- **When fastening the seat belts, be certain that the seatbacks are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.**
- **When attaching the rear center seat belt connector, be certain that the seatbacks are completely secured in the latched position and the rear center seat belt connector is completely secured.**
- **If the rear center seat belt connector and the seatbacks are not secured in the correct position, serious personal injury may result in an accident or sudden stop.**



Unfastening the seat belts

To unfasten the belt, push the button on the buckle. The seat belt will automatically retract.

Checking seat belt operation

Your seat belt retractors are designed to lock belt movement using two separate methods:

- when the belt is pulled quickly from the retractor.
- when the vehicle slows down rapidly.

You can check their operation as follows:

- grasp the shoulder belt and pull quickly for-

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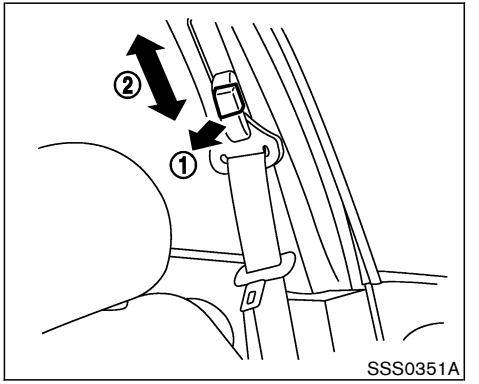
ward. The retractor should lock and restrict further belt movement.

If the retractor does not lock during this check or if you have any questions about belt operation, see a NISSAN dealer.



Shoulder belt height adjustment (Except for rear center seat)

The shoulder belt anchor height should be adjusted to the position best suited for you. (See “Precautions on seat belt usage” earlier in this section.) To adjust, pull the release button (1), and then move the shoulder belt anchor (2) to the desired position, so that the belt passes over the center of the shoulder. The belt should be away from your face and neck, but not falling off of your shoulder. Release the adjustment button (1) to lock the shoulder belt anchor into position.

WARNING

- **After adjustment, release the adjustment button and try to move the shoulder belt anchor up and down to make sure it is securely fixed in position.**
- **The shoulder belt anchor height should be adjusted to the position best for you. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident.**

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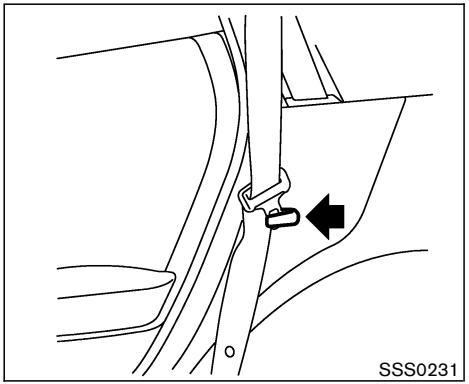
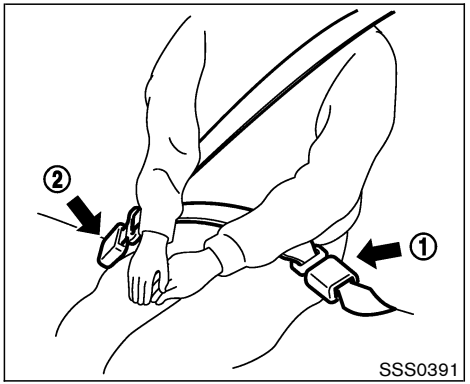


Seat belt hook

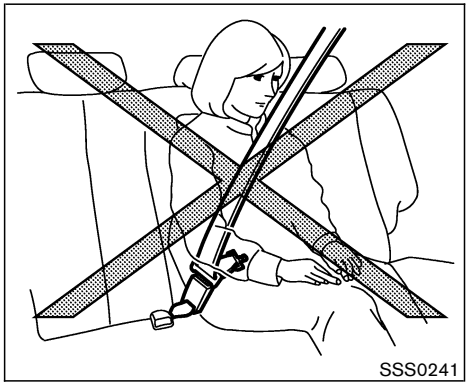
When folding down the rear seat, hook the rear seat belt at the belt hook.



REAR CENTER SEAT BELT

The rear center seat belt has a connector tongue (1) and a seat belt tongue (2). Both the connector tongue and the seat belt tongue must be securely latched for proper seat belt operation.

The connector tongue (1) should always be connected except when folding down the rear seat.



⚠ WARNING

- **Always fasten the connector tongue and the seat belt in the order shown.**
- **Always make sure both the connector tongue and the seat belt tongue are secured when using the seat belt. Do not use it with only the seat belt tongue attached. This could result in serious personal injury in case of an accident or a sudden stop.**

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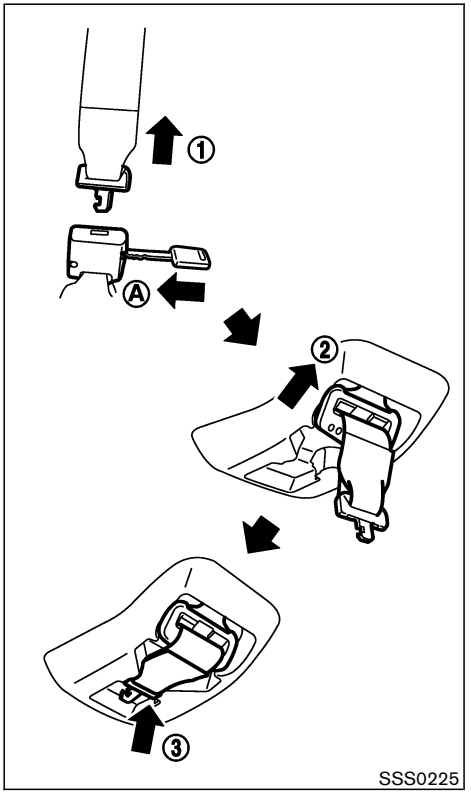

Stowing rear center seat belt

When folding down the rear seat, the rear center seat belt can be retracted into a stowed position as follows:

1. Hold the connector tongue (1) so that the seat belt does not retract suddenly when the tongue is released from the connector buckle.
2. Inserting a suitable tool such as key (A) into the connector buckle and release the connector tongue (1).
3. Secure the seat belt tongue into the retractor base first (2).
4. Then secure the connector tongue into the retractor base (3).

WARNING

- **Do not unfasten the rear center seat belt connector except when folding down the rear seat.**
- **When attaching the rear center seat belt connector, be certain that the seatbacks are completely secured in the latched position and the rear center seat belt connector is completely secured.**
- **If the rear center seat belt connector and the seatbacks are not secured in the correct position, serious personal injury may result in an accident or sudden stop.**

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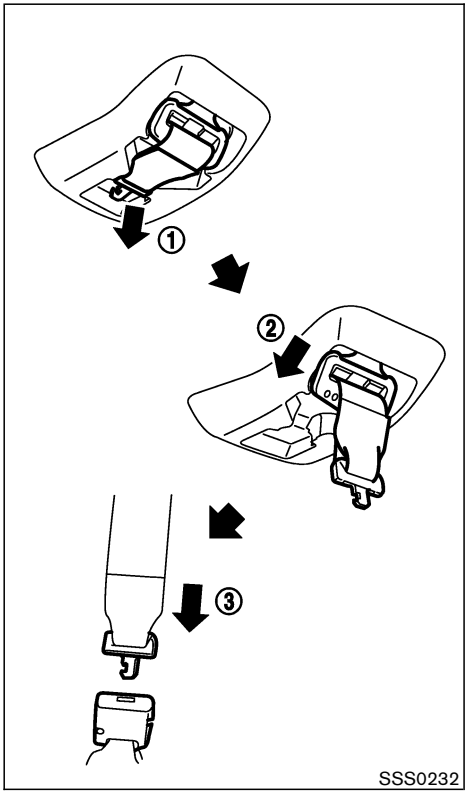

Attaching rear center seat belt

Always be sure the rear center seat belt connector tongue and connector buckle are attached. Disconnect only when folding down the rear seat.

To connect the buckle:

1. Pull out the connector tongue from the retractor base ①.
2. Pull out the seat belt tongue from the retractor base ②.
3. Pull the seat belt and secure the connector buckle until it clicks ③.

The center seat belt connector tongue and buckle are indicated by the "▼" and "▲" mark.

The center seat belt connector tongue can be attached only into the rear center seat belt connector buckle.

To fasten the seat belt, see "Fastening the seat belt" earlier in this section.

⚠ WARNING

- **Do not unfasten the rear center seat belt connector except when folding down the rear seat.**
- **When attaching the rear center seat belt connector, be certain that the seatbacks are completely secured in the latched position and the rear center seat belt connector is completely secured.**
- **If the rear center seat belt connector and the seatbacks are not secured in the correct position, serious personal injury may result in an accident or sudden stop.**

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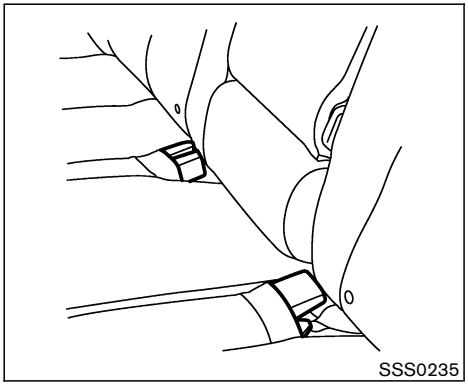

Storing rear seat belt buckles

Before folding down the seat, put the buckles in the storage of the seat cushion to avoid dropping it under the seat cushion.

SEAT BELT EXTENDERS

If, because of body size or driving position, it is not possible to properly fit the lap-shoulder belt and fasten it, an extender is available. The extender adds approximately 8 inches (200 mm) of length and may be used for either the driver or front passenger seating position. See a NISSAN dealer for assistance if the extender is required.

WARNING

- **Only NISSAN seat belt extenders, made by the same company which made the original equipment seat belts, should be used with NISSAN seat belts.**
- **Adults and children who can use the standard seat belt should not use an extender. Such unnecessary use could result in serious personal injury in the event of an accident.**
- **Never use seat belt extenders to install child restraints. If the child restraint is not secured properly, the child could be seriously injured in a collision or a sudden stop.**

SEAT BELT MAINTENANCE

- **To clean the seat belt webbings,** apply a mild soap solution or any solution recommended for cleaning upholstery or carpets. Then brush the webbing, wipe it with a cloth and allow it to dry in the shade. Do not allow the seat belts to retract until they are completely dry.
- If dirt builds up in the shoulder belt guide of the seat belt anchors, the seat belts may retract slowly. Wipe the shoulder belt guide with a clean, dry cloth.
- **Periodically check to see that the seat belt and the metal components** such as buckles, tongues, retractors, flexible wires and anchors work properly. If loose parts, deterioration, cuts or other damage on the webbing is found, the entire belt assembly should be replaced.

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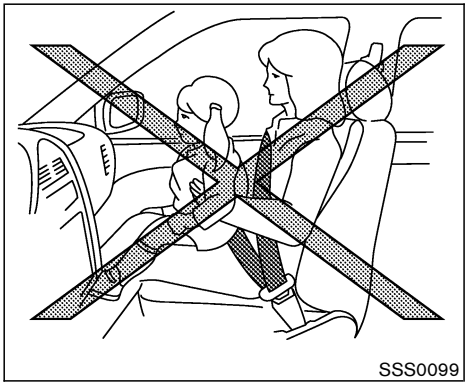
CHILD RESTRAINTS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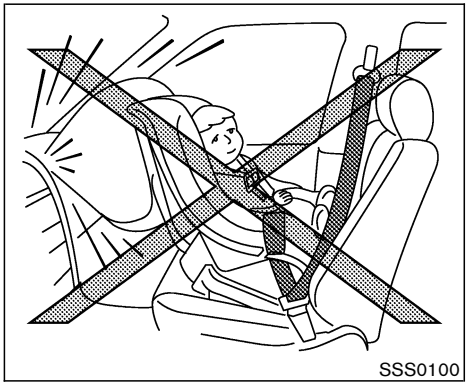
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PRECAUTION ON CHILD RESTRAINTS

WARNING

- **Infants and small children should always be placed in an appropriate child restraint while riding in the vehicle. Failure to use a child restraint can result in serious injury or death.**
- **Infants and small children should never be carried on your lap. It is not possible for even the strongest adult to resist the forces of a severe accident. The child could be crushed between the adult and parts of the vehicle. Also, do not put the same seat belt around both your child and yourself.**
- **Even with the NISSAN Advanced Air Bag System, never install a rear-facing child restraint in the front seat. An inflating supplemental front air bag could seriously injure or kill your child. A rear-facing child restraint must only be used in the rear seat.**
- **NISSAN recommends that the child restraint be installed in the rear seat. According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat. If you must install a front facing child restraint in the front seat, see “Child restraint installation using the seat belts” in this section.**
- **Improper use or improper installation of a child restraint can increase the risk or severity of injury for both the child and other occupants of the vehicle and can lead to serious injury or death in an accident.**
- **Follow all of the child restraint manufacturer’s instructions for installation and use. When purchasing a child restraint, be sure to select one which will fit your child and vehicle. It may not be possible to properly install some types of child restraints in your vehicle.**
- **If the child restraint is not anchored properly, the risk of a child being injured in a collision or a sudden stop greatly increases.**

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- **Child restraint anchor points are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses.**
- **Adjustable seatbacks should be positioned to fit the child restraint, but as upright as possible.**
- **After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the seat near the LATCH attachment or by the seat belt path. Try to tug it forward and check to see if the belt holds the restraint in place. The child restraint should not move more than 1 in (25 mm). If the restraint is not secure, tighten the belt as necessary, or put the restraint in another seating position and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.**
- **When your child restraint is not in use, keep it secured with the LATCH System or a seat belt to prevent it from being thrown around in case of a sudden stop or accident.**

CAUTION

Remember that a child restraint left in a closed vehicle can become very hot. Check the seating surface and buckles before placing your child in the child restraint.

This vehicle is equipped with a universal child restraint lower anchor system, referred to as the Lower Anchors and Tethers for CHildren System or LATCH. Some child restraints include two rigid or webbing-mounted attachments that can be connected to these lower anchors. For details, see “Lower Anchors and Tethers for CHildren System (LATCH)” in this section.

If you do not have a LATCH compatible child restraint, the vehicle seat belts can be used. See “Child restraint installed using the seat belts” later in this section. In general, child restraints are also designed to be installed with the lap portion of a lap/shoulder seat belt.

Several manufacturers offer child restraints for infants and small children of various sizes. When selecting any child restraint, keep the following points in mind:

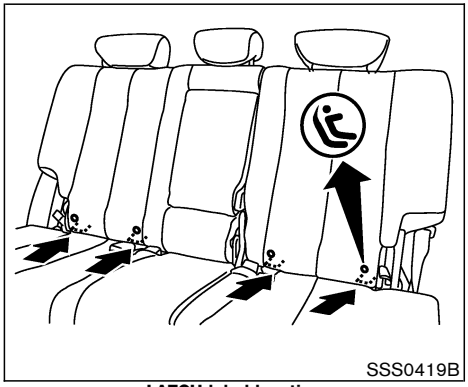
- Choose only a restraint with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- Check the child restraint in your vehicle to be sure it is compatible with the vehicle’s seat and seat belt system.
- If the child restraint is compatible with your vehicle, place your child in the child restraint and check the various adjustments to be sure the child restraint is compatible with your child. Choose a child restraint that is designed for your child’s height and weight. Always follow all recommended procedures.

All U.S. states and Canadian provinces or territories require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated.

Lower Anchors and Tethers for CHildren SYSTEM (LATCH)

Your vehicle is equipped with special anchor points that are used with Lower Anchors and Tethers for CHildren System (LATCH) compatible child restraints. This system may also be referred to as the ISOFIX or ISOFIX compatible system. With this system, you do not have to use a vehicle seat belt to secure the child restraint.

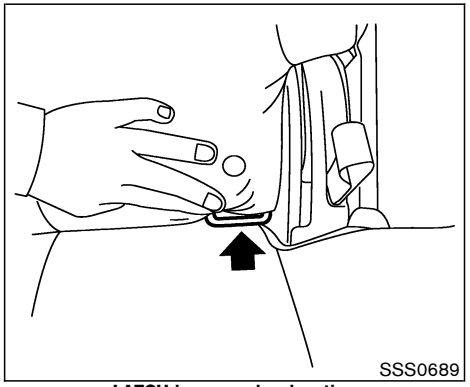
The LATCH anchor points are provided to install child restraints in the rear outboard seating positions only. Do not attempt to install a child restraint in the center position using the LATCH anchors.



LATCH label location

LATCH lower anchor point locations

The LATCH anchors are located at the rear of the seat cushion near the seatback. A label is attached to the seatback to help you locate the LATCH anchors.



LATCH lower anchor location

⚠ WARNING

- **Attach LATCH compatible child restraints only at the locations shown in the illustration. If a child restraint is not secured properly, your child could be seriously injured or killed in an accident.**
- **Do not secure a child restraint in the center rear seating position using the LATCH anchors. The child restraint**

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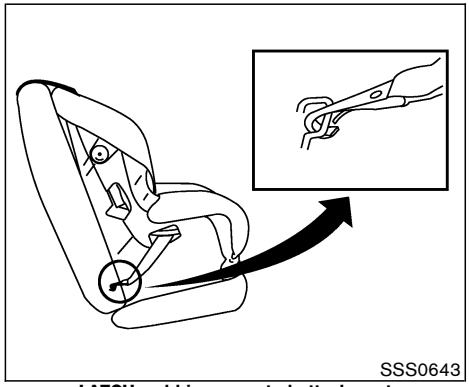
will not be secured properly.

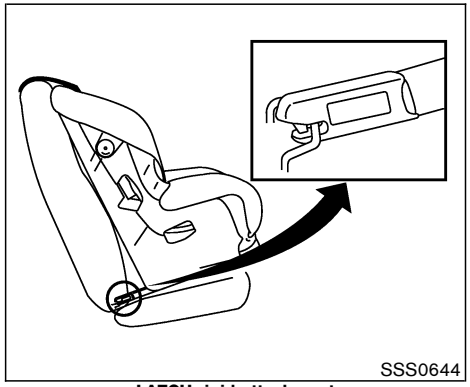
- **Child restraint anchor points are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstance are they to be used for adult seat belts or harnesses.**



LATCH webbing-mounted attachment

Installing child restraint LATCH anchor attachments

LATCH compatible child restraints include two rigid or webbing-mounted attachments that can be connected to two anchors located at certain seating positions in your vehicle. With this system, you do not have to use a vehicle seat belt to secure the child restraint. Check your child restraint for a label stating that it is compatible with LATCH. This information may also be in the instructions provided by the child restraint manufacturer.



LATCH rigid attachment

LATCH child restraints generally require the use of a top tether strap. See “Top tether strap child restraint” in this section for installation instructions.

When installing a child restraint, carefully read and follow the instructions in this manual and those supplied with the child restraint. See “Child restraint installation using LATCH” in this section.

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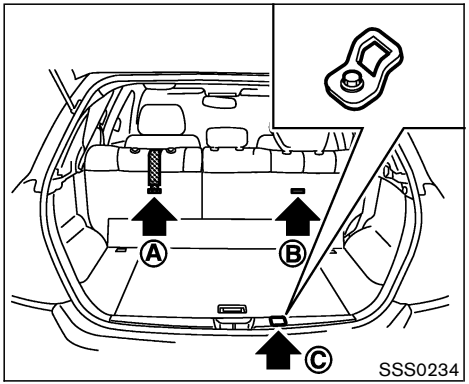
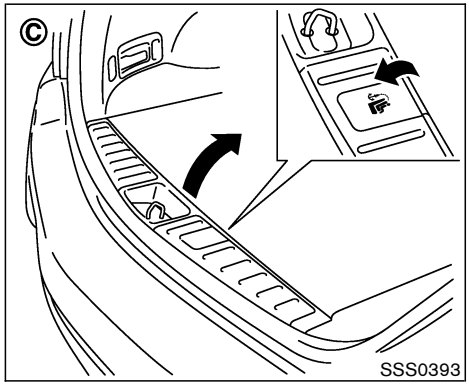


TOP TETHER STRAP CHILD RESTRAINT

If the manufacturer of your child restraint requires the use of a top tether strap, it must be secured to an anchor point.

WARNING

- **Child restraint anchor points are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses.**
- **The child restraint top tether strap may be damaged by contact with the tonneau cover or items in the cargo area. Remove the tonneau cover from the vehicle or secure it in the cargo area. Also secure any items in the cargo area. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.**



Top tether anchor point locations

Anchor points are located as illustrated.

Ⓐ : for rear left side seat position

Ⓑ : for rear right side seat position

Ⓒ : for rear center seat position

Installing top tether strap

First, secure the child restraint with the seat belt or LATCH (rear outboard seat positions only), as applicable.

For the center position Ⓒ, remove the anchor cover from the anchor point as illustrated. Keep the removed cover in a secure place to prevent loss or damage.

Remove the head restraint from the seatback. Store it in a secure place. Position the top tether strap over the top of the seatback and secure it to the tether anchor bracket that provides the straightest installation. Tighten the strap according to the manufacturer's instructions to remove any slack.

If you have any questions when installing a top tether strap child restraint on the rear seat, consult your NISSAN dealer for details.

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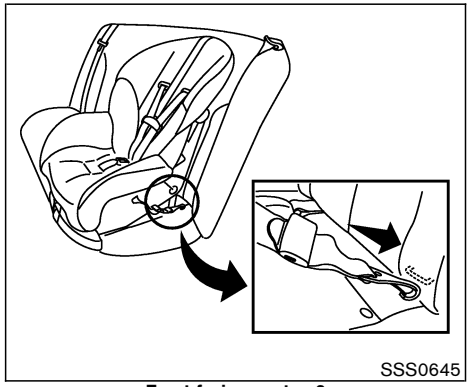
CHILD RESTRAINT INSTALLATION USING LATCH

WARNING

- **Attach LATCH compatible child restraints only at the locations shown. For the LATCH lower anchor locations, see “Lower Anchors and Tethers for CHildren System (LATCH)” in this section. If a child restraint is not secured properly, your child could be seriously injured or killed in an accident.**
- **The LATCH anchors are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstance are they to be used for adult seat belts or harnesses.**
- **Inspect the lower anchors by inserting your fingers into the lower anchor area and feeling to make sure there are no obstructions over the LATCH anchors, such as seat belt webbing or seat cushion material. The child restraint will not be secured properly if the LATCH anchors are obstructed.**



Front facing — step 3

Front-facing

Follow these steps to install a front-facing child restraint using LATCH:

1. Adjust the seatback so that it is upright.
   - Do not move the rear seatbacks with the child restraints attached to them.
2. Position the child restraint on the seat. Always follow the child restraint manufacturer’s instructions.

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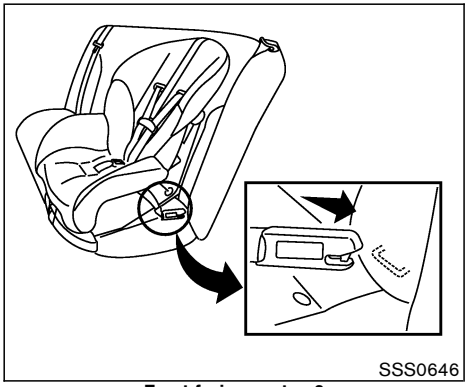
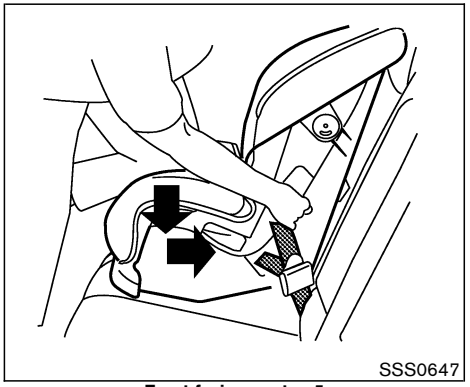


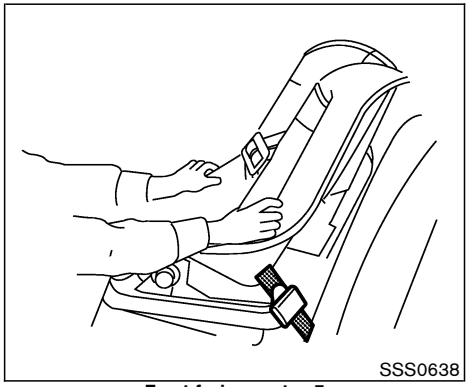
Front facing — step 3

3. Secure the child restraint anchor attachments to the LATCH lower anchors.
4. The back of the child restraint should be secured against the vehicle seatback. If necessary, adjust or remove the head restraint to obtain the correct child restraint fit. See “Head restraint adjustment” in this section. When the head restraint is removed, store it in a secure place. Be sure to install the head restraint when the child restraint is removed.



Front facing — step 5

5. For child restraints that are equipped with webbing mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.
6. If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. See “Top tether strap child restraint” in this section.



Front facing — step 7

7. Before placing the child in the child restraint, hold child restraint near the LATCH attachment and use force to push the child restraint from side to side, and tug it forward to make sure that it is securely held in place. It should not move more than 1 in (25 mm). If it does move more than 1 in (25 mm), pull again on the anchor attachments to further tighten the child restraint. If you are unable to properly secure the restraint, move the restraint to another seating position and try again, or try a different child restraint. Not all child restraints fit in all types of vehicles.
8. Check to make sure the child restraint is properly secured prior to each use. If the

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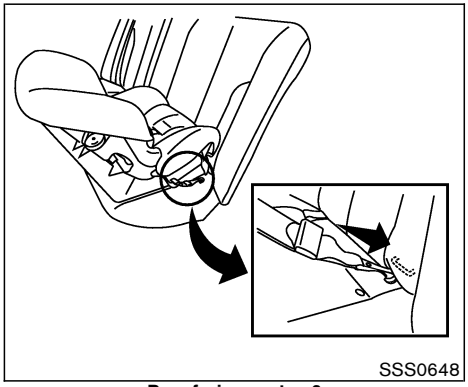
child restraint is loose, repeat steps 4 through 7.



Rear facing — step 3

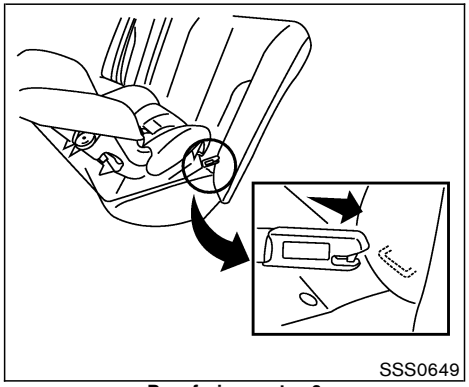
Rear-facing

Follow these steps to install a rear-facing child restraint using LATCH:

1. Adjust the seatback so that it is upright.

- Do not move the rear seatbacks with the child restraints attached to them.

2. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.



Rear facing — step 3

3. Secure the child restraint anchor attachments to the LATCH lower anchors.

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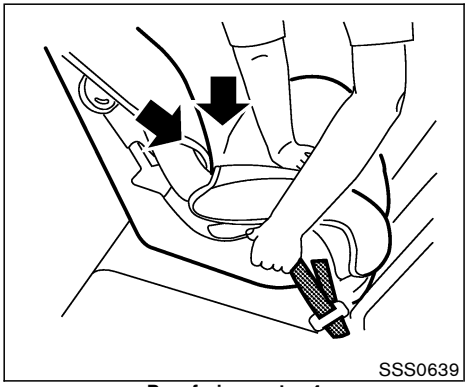
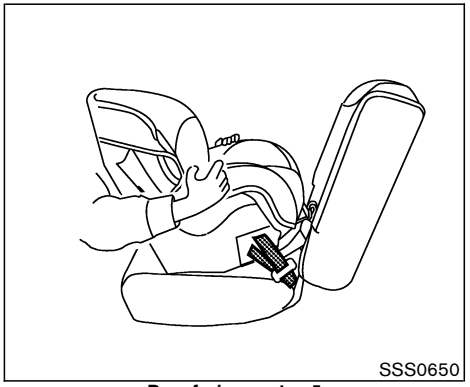


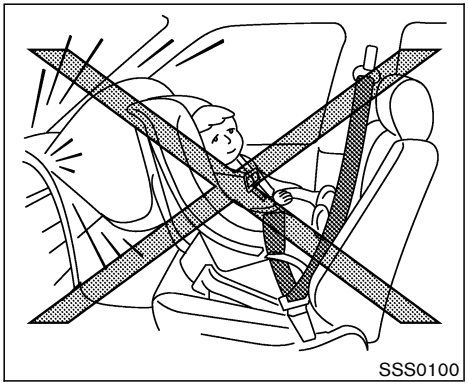
Rear facing — step 4

4. For child restraints that are equipped with webbing mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your hand to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.



Rear facing — step 5

5. Before placing the child in the child restraint, hold the child restraint near the LATCH attachment and use force to push the child restraint from side to side, and tug it forward to make sure that it is securely held in place. It should not move more than 1 in (25 mm). If it does move more than 1 in (25 mm), pull again on the anchor attachments to further tighten the child restraint. If you are unable to properly secure the restraint, move the restraint to another seating position and try again, or try a different child restraint. Not all child restraints fit in all types of vehicles.
6. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 4 through 5.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CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS

⚠ WARNING

- **Even with the NISSAN Advanced Air Bag System, never install a rear-facing child restraint in the front passenger seat. Supplemental front air bags inflate with great force. A rear-facing child restraint could be struck by the supplemental front air bag in a crash and could seriously injure or kill your child.**
- **NISSAN recommends that child restraints be installed in the rear seat. However, if you must install a forward facing child restraint in the front passenger seat, move the passenger seat to the rearmost position. Also, be sure the front passenger air bag status light is illuminated to indicate the passenger air bag is OFF. See "Front passenger air bag and status light" in this section for details.**
- **The three-point seat belt in your vehicle is equipped with an automatic locking mode retractor which must be used when installing a child restraint.**
- **Failure to use the retractor's locking mode will result in the child restraint not being properly secured. The restraint could tip over or otherwise be unsecured and cause injury to the child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. See "Front passenger air bag and status light" in this section.**
- **A child restraint with a top tether strap should not be used in the front passenger seat.**

The instructions in this section apply to child restraint installation using the vehicle seat belts in the rear seat or the front passenger seat.

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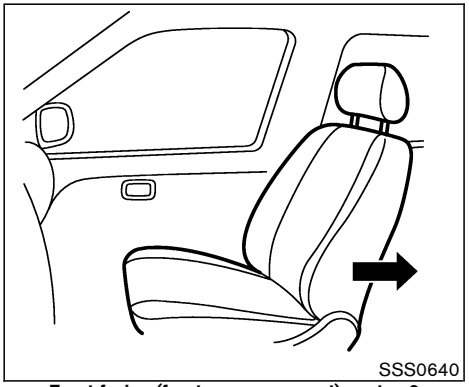


Front facing (front passenger seat) — step 2

Front-facing

Follow these steps to install a front-facing child restraint using the vehicle seat belt in the rear seat or in the front passenger seat:

1. Adjust the seatback so that it is upright.

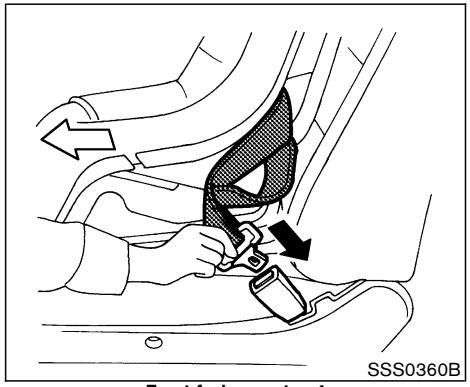
- Do not move the seats with the child restraints attached to them.

2. **If you must install a child restraint in the front seat, it should be placed in a front-facing direction only. Move the seat to the rearmost position. Child restraints for infants must be used in the rear-facing direction and therefore must not be used in the front seat.**

3. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.

   The back of the child restraint should be secured against the vehicle seatback. If necessary, adjust or remove the head restraint to obtain the correct child restraint fit. See "Head restraint adjustment" in this section.

   If the head restraint is removed, store it in a secure place. Be sure to install the head restraint when the child restraint is removed.



Front facing — step 4

4. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.

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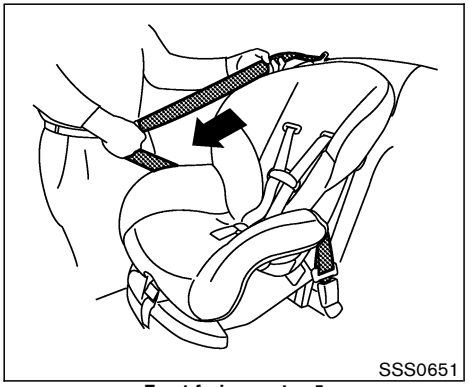
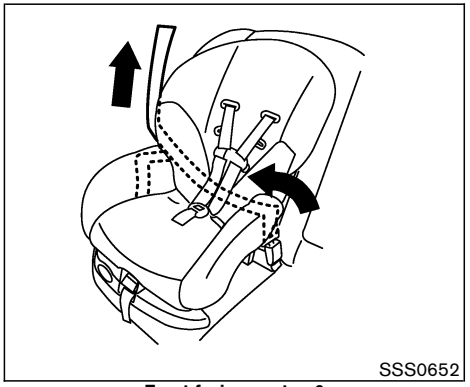


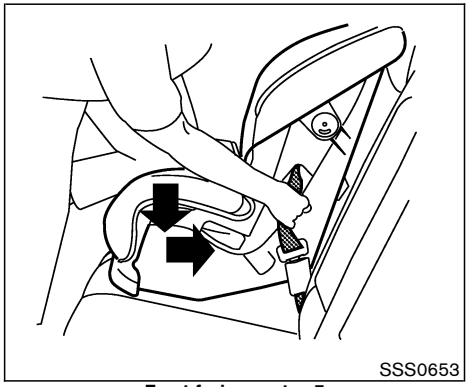
Front facing — step 5

5. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the automatic locking mode (child restraint mode). It reverts to emergency locking mode when the seat belt is fully retracted.



Front facing — step 6

6. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.



Front facing — step 7

7. Remove any additional slack from the seat belt; press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while pulling up on the seat belt.
8. If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point (rear seat installation only). See “Top tether strap child restraint” in this section. Do not install child restraints equipped with a top tether strap to seating positions that do not have a top tether anchor.

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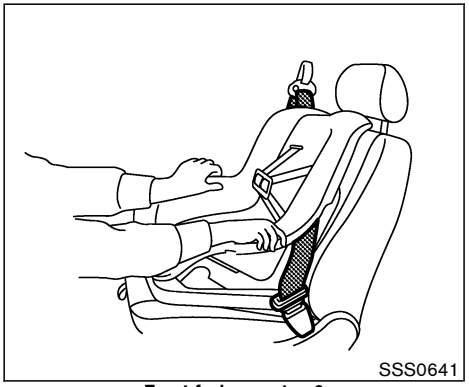

Front facing — step 9

9. Before placing the child in the child restraint, hold the child restraint near the seat belt path and use force to push the child restraint from side to side, and tug it forward to make sure that it is securely held in place. It should not move more than 1 in (25 mm). If it does move more than 1 in (25 mm), pull again on the shoulder belt to further tighten the child restraint. If you are unable to properly secure the restraint, move the restraint to another seating position and try again, or try a different child restraint. Not all child restraints fit in all types of vehicles.
10. Check that the retractor is in the automatic locking mode by trying to pull more seat belt out of the retractor. If you cannot pull any more belt webbing out of the retractor, the retractor is in the automatic locking mode.
11. Check to make sure the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 4 through 9.

Front facing — step 12

12. If the child restraint is installed in the front passenger seat, turn the ignition switch to the ON position. The front passenger air bag status light PASS AIR BAG OFF should illuminate. If this light is not illuminated, see “Front passenger air bag and status light” in this section. **Move the child restraint to another seating position.** Have the system checked by a NISSAN dealer.

After the child restraint is removed and the seat belt is fully retracted, the automatic locking mode (child restraint mode) is canceled.

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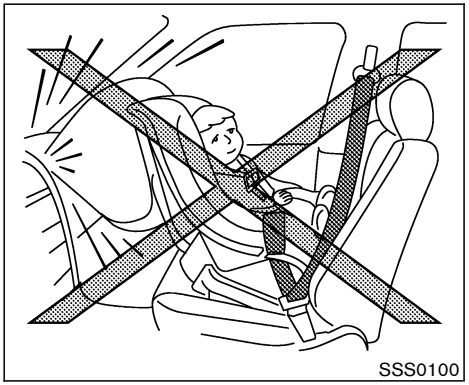
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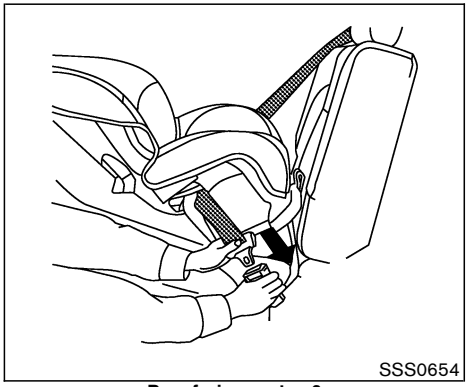
Rear-facing

Follow these steps to install a rear-facing child restraint using the vehicle seat belt in the rear seat:

1. Adjust the seatback so that it is upright.

- Do not move the rear seatbacks with the child restraints attached to them.

2. **Child restraints for infants must be used in the rear-facing direction and therefore must not be used in the front seat.** Position the child restraint on the seat. Always follow the restraint manufacturer's instructions.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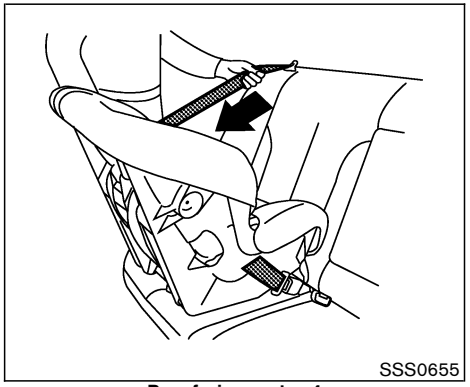
Rear facing — step 3

3. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.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Rear facing — step 4

4. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the automatic locking mode (child restraint mode). It reverts to emergency locking mode when the seat belt is fully retracted.

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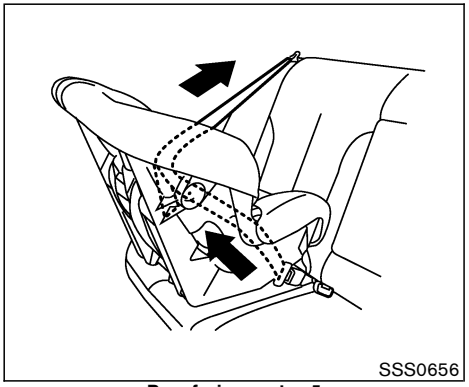
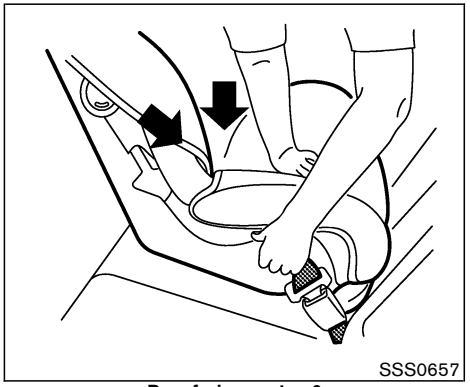


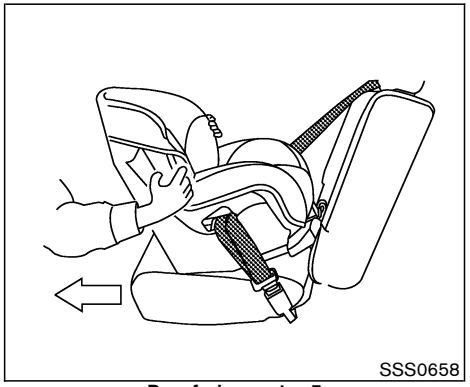
Rear facing — step 5

5. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.



Rear facing — step 6

6. Remove any additional slack from the child restraint; press downward and rearward firmly in the center of the child restraint with your hand to compress the vehicle seat cushion and seatback while pulling up on the seat belt.



Rear facing — step 7

7. Before placing the child in the child restraint, hold the child restraint near the seat belt path and use force to push the child restraint from side to side, and tug it forward to make sure that it is securely held in place. It should not move more than 1 in (25 mm). If it does move more than 1 in (25 mm), pull again on the shoulder belt to further tighten the child restraint. If you are unable to properly secure the restraint, move the restraint to another rear seating position and try again, or try a different child restraint. Not all child restraints fit in all types of vehicles.
8. Check that the retractor is in the automatic locking mode (Child restraint mode) by trying

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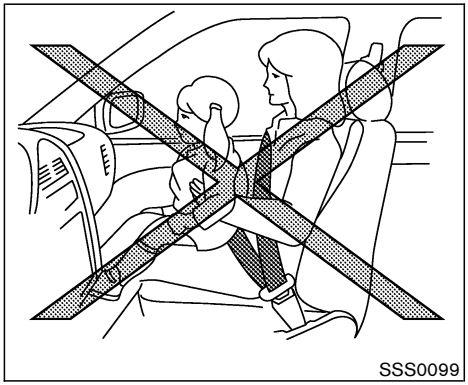
to pull more seat belt out of the retractor. If you cannot pull any more seat belt webbing out of the retractor, the retractor is in the automatic locking mode (Child restraint mode).

9. Check to make sure that the child restraint is properly secured prior to each use. If the belt is not locked, repeat steps 4 through 7.

After the child restraint is removed and the seat belt fully retracted, the automatic locking mode (child restraint mode) is canceled.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PRECAUTIONS ON BOOSTER SEATS

WARNING

- **Infants and small children should always be placed in an appropriate child restraint while riding in the vehicle. Failure to use a child restraint or booster seat can result in serious injury or death.**
- **Infants and small children should never be carried on your lap. It is not possible for even the strongest adult to resist the forces of a severe accident. The child could be crushed between the adult and parts of the vehicle. Also, do not put the same seat belt around both your child and yourself.**
- **NISSAN recommends that the booster seat be installed in the rear seat. According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat. If you must install a booster seat in the front seat, see “Booster seat installation” in this section.**
- **A booster seat must only be installed in a seating position that has a lap/shoulder belt. Failure to use a three-point type seat belt with a booster seat can result in a serious injury in sudden stop or collision.**
- **Improper use or improper installation of a booster seat can increase the**

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risk or severity of injury for both the child and other occupants of the vehicle and can lead to serious injury or death in an accident.

- Do not use towels, books, pillows or other items in place of a booster seat. Items such as these may move during normal driving or a collision and result in serious injury or death. Booster seats are designed to be used with a lap/shoulder belt. Booster seats are designed to properly route the lap and shoulder portions of the seat belt over the strongest portions of a child's body to provide the maximum protection during a collision.
- Follow all of the booster seat manufacturer's instructions for installation and use. When purchasing a booster seat, be sure to select one which will fit your child and vehicle. It may not be possible to properly install some types of booster seats in your vehicle.
- If the booster seat and seat belt is not used properly, the risk of a child being injured in a collision or a sudden stop greatly increases.
- Adjustable seatbacks should be positioned to fit the booster seat, but as upright as possible.
- After placing the child in the booster seat and fastening the seat belt, make sure the shoulder portion of the belt is away from the child's face and neck and the lap portion of the belt does not cross the abdomen.
- Do not put the shoulder belt behind the child or under the child's arm. If you must install a booster seat in the front seat, see "Booster seat installation" later in this section.
- When your booster seat is not in use, keep it secured with a seat belt to prevent it from being thrown around in case of a sudden stop or accident.

CAUTION

Remember that a booster seat left in a closed vehicle can become very hot. Check the seating surface and buckles before placing your child in the booster seat.

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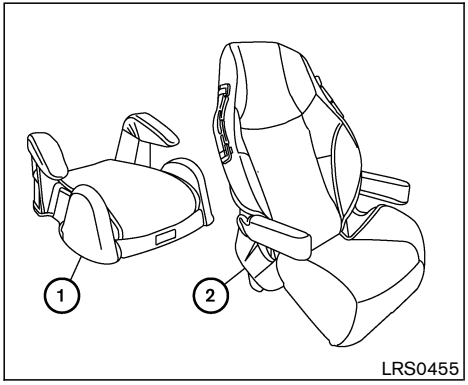

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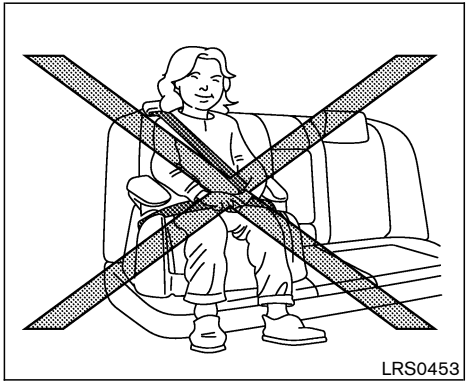
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Booster seats of various sizes are offered by several manufacturers. When selecting any booster seat, keep the following points in mind:

- Choose only a booster seat with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- Check the booster seat in your vehicle to be sure it is compatible with the vehicle's seat and seat belt system.
- Make sure the child's head will be properly supported by the booster seat or vehicle seat. The seat back must be at or above the center of the child's ears. For example, if a low back booster seat (1) is chosen, the vehicle seat back must be at or above the center of the child's ears. If the seat back is lower than the center of the child's ears, a high back booster seat (2) should be used.
- If the booster seat is compatible with your vehicle, place your child in the booster seat and check the various adjustments to be sure the booster seat is compatible with your child. Always follow all recommended procedures.

All U.S. states and Canadian provinces or territories require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated.

The instructions in this section apply to booster seat installation in the rear seats or the front passenger seat.

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BOOSTER SEAT INSTALLATION

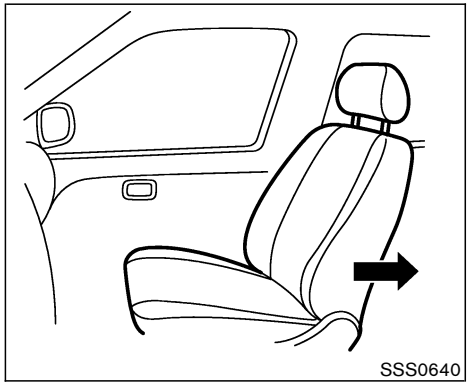
WARNING

NISSAN recommends that booster seats be installed in the rear seat. However, if you must install a booster seat in the front passenger seat, move the passenger's seat to the rearmost position.

CAUTION

Do not use the lap/shoulder belt automatic locking mode when using a booster seat with the seat belts.

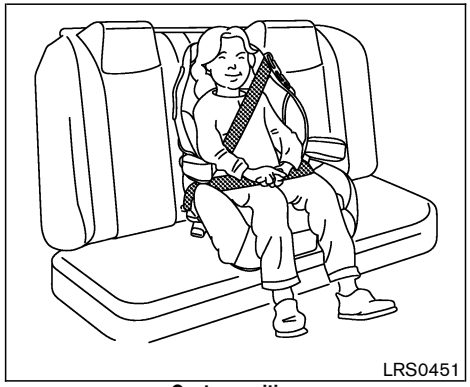
Follow these steps to install a booster seat in the rear seat or in the front passenger seat:


SSS0640

1. Adjust the seatback so that it is upright.
- Do not move the seats with the booster seat attached to them.

2. If you must install a booster seat in the front seat, move the seat to the rearmost position.

3. Position the booster seat on the seat. Only place it in a front facing direction. Always follow the booster seat manufacturer's instructions.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Center position

4. The booster seat should be positioned on the vehicle seat so that it is stable. If necessary, adjust or remove the head restraint to obtain the correct booster seat fit. See "Head restraint adjustment" earlier in this section. If the head restraint is removed, store it in a secure place. Be sure to install the head restraint when the booster seat is removed.

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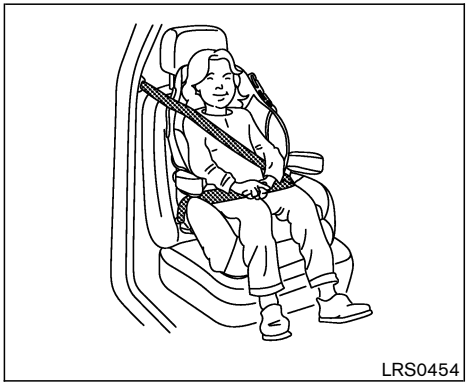
Outboard position

5. Position the lap portion of the seat belt low and snug on the child's hips. Be sure to follow the booster seat manufacturer's instructions for adjusting the belt routing.
6. Pull the shoulder belt portion of the seat belt toward the retractor to take up extra slack. Be sure the shoulder belt is positioned across the top, middle portion of the child's shoulder. Be sure to follow the booster seat manufacturer's instructions for adjusting the belt routing.



Front seat

7. Follow the warnings, cautions and instructions for properly fastening a seat belt shown in the "Three-point seat belt with retractor" earlier in this section.

8. If the booster seat is installed in the front passenger seat, turn the ignition switch to the ON position. The front passenger air bag status light PASS AIR BAG OFF may or may not illuminate depending on the size of the child and the type of booster seat used. See "Front passenger air bag and status light" in this section.

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DEALER PROCESS

SUPPLEMENTAL RESTRAINT SYSTEM

PRECAUTIONS ON SUPPLEMENTAL RESTRAINT SYSTEM

This Supplemental Restraint System (SRS) section contains important information concerning the driver and passenger front impact supplemental air bags (NISSAN advanced air bag system), front seat side-impact supplemental air bags, curtain side-impact and rollover air bags and front seat pre-tensioner seat belts.

Supplemental front impact air bag system: The NISSAN advanced air bag system can help cushion the impact force to the head and chest of the driver and front passenger in certain frontal collisions.

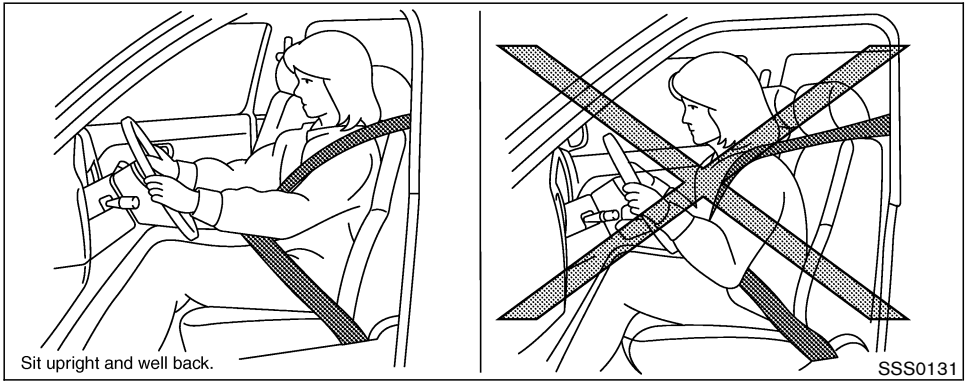
Supplemental side-impact air bag system: This system can help cushion the impact force to the chest area of the driver and front passenger in certain side impact collisions. The front seat side-impact supplemental air bags are designed to inflate on the side where the vehicle is impacted.

Supplemental curtain side-impact and rollover air bag system: This system can help cushion the impact force to the head of occupants in front and rear outboard seating positions in certain side impact or rollover collisions. In a side impact, the curtain side-impact air bags are designed to inflate on the side where the vehicle is impacted. In a rollover, both curtain side-impact air bags are designed to inflate and remain inflated for a while.

These supplemental restraint systems are designed to **supplement** the crash protection provided by the driver and passenger seat belts and are **not a substitute** for them. Seat belts should always be correctly worn and the occupant seated a suitable distance away from the steering wheel, instrument panel, door finishers and side roof rails. (See “Seat belts” earlier in this section for instructions and precautions on seat belt usage.)

After turning the ignition switch to the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the systems are operational.

Information Provided by:
DEALER E-PROCESS



WARNING

- The supplemental front air bags ordinarily will not inflate in the event of a side impact, rear impact, rollover, or lower severity frontal collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.
- The front passenger air bag will not inflate if the passenger air bag status light is lit or if the front passenger seat is unoccupied. See “Front passenger air bag and status light” later in this section.
- The seat belts and the supplemental front air bags are most effective when you are sitting well back and upright in the seat. The front air bags inflate with great force. Even with the NISSAN advanced air bag system, if you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash. You may also receive serious or fatal injuries from the supplemental front air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel or instrument panel. Always use the seat belts.
- The driver and front passenger seat belt buckles are equipped with sensors that detect if the seat belts are fastened. The advanced air bag system monitors the severity of a collision and belt usage then inflates the air bags. Failure to properly wear seat belts can increase the risk or severity of injury in an accident.
- The front passenger seat is equipped with an occupant classification sensor (pressure sensor) that turns the front passenger air bag OFF under some conditions. This sensor is only used in this seat. Failure to be prop-

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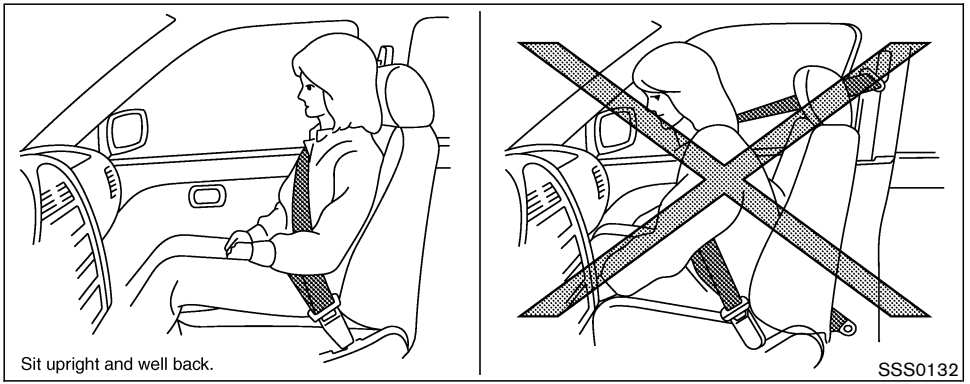
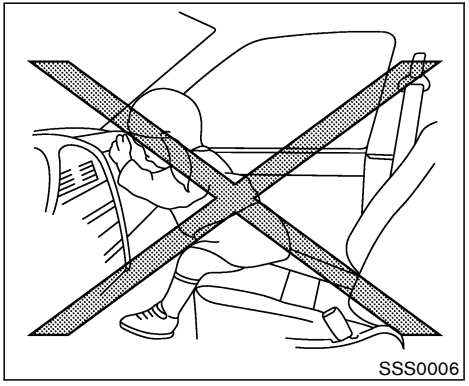


erly seated and wearing the seat belt can increase the risk or severity of injury in an accident. See “Front Passenger air bag and status light” later in this section.

- Keep hands on the outside of the steering wheel. Placing them inside the steering wheel rim could increase the risk that they are injured when the supplemental front air bag inflates.
- Never let children ride unrestrained or extend their hands or face out of the window. Do not attempt to hold them in your lap or arms. Some examples of dangerous riding positions are shown in the illustrations.
- Children may be severely injured or killed when the supplemental front air bags, side air bags or curtain side-impact and rollover air bags inflate if they are not properly restrained. Pre-teens and children should be properly restrained in the rear seat, if possible.
- Even with the NISSAN advanced air bag system, never install a rear facing child restraint in the front seat. An inflating supplemental front air bag could seriously injure or kill your child. See “Child restraints” earlier in this section for details.

Information Provided by:
DEALER E-PROCESS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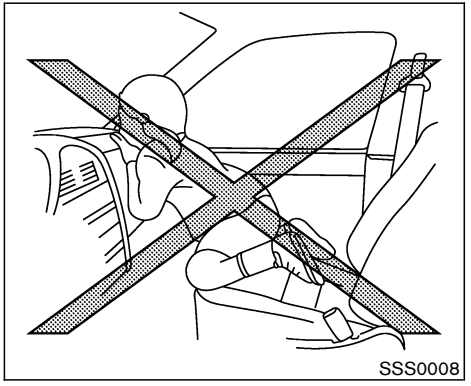
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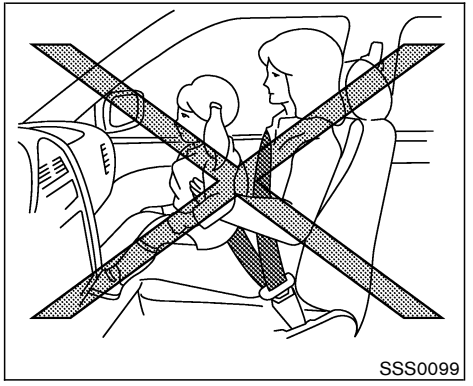
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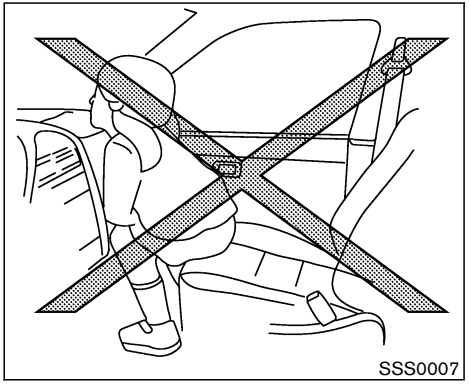
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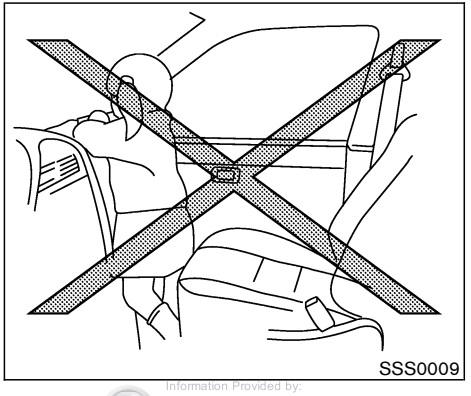
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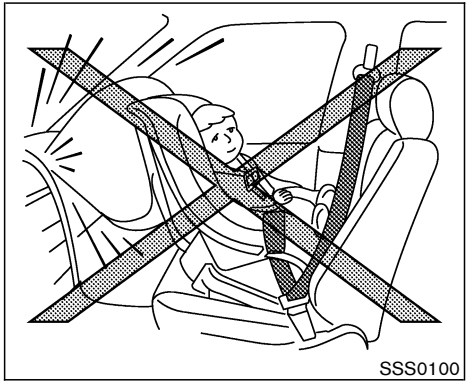
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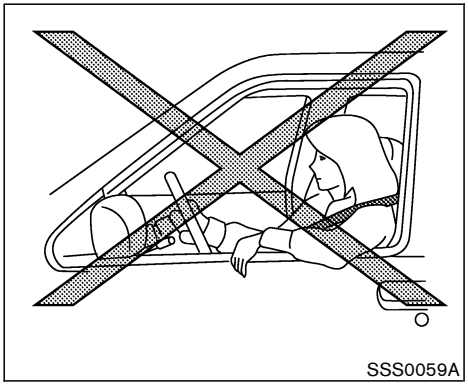
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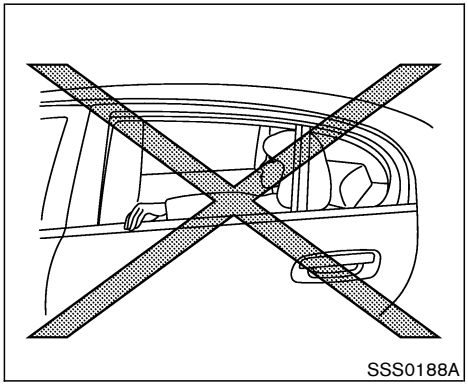
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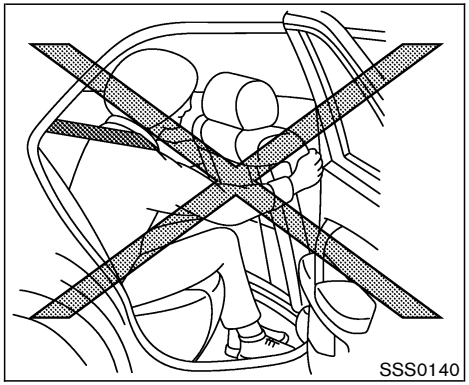
SSS0140

⚠ WARNING

Supplemental side air bag and curtain side-impact and rollover air bag:

- **The supplemental side air bag and curtain side-impact and rollover air bag ordinarily will not inflate in the event of a frontal impact, rear impact or lower severity side collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**
- **The seat belts, the supplemental side air bags and curtain side-impact and rollover air bags are most effective when you are sitting well back and upright in the seat. The side air bag and curtain side-impact and rollover air bag inflate with great force. Do not allow anyone to place their hand, leg or face near the side air bag on the side of the seatback of the front seat or near the side roof rails. Do not allow anyone sitting in the front seats or rear outboard seats to extend their hand out of the window or lean against the door. Some examples of dangerous riding positions are shown in the illustrations.**
- **When sitting in the rear seat, do not hold onto the seatback of the front seat. If the side air bag inflates, you may be seriously injured. Be especially careful with children, who should always be properly restrained.**

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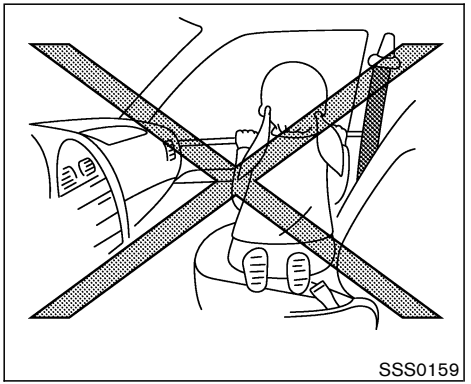
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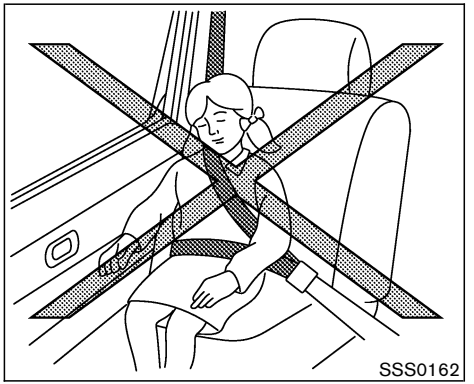
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- **Do not use seat covers on the front seatbacks. They may interfere with supplemental side air bag inflation.**

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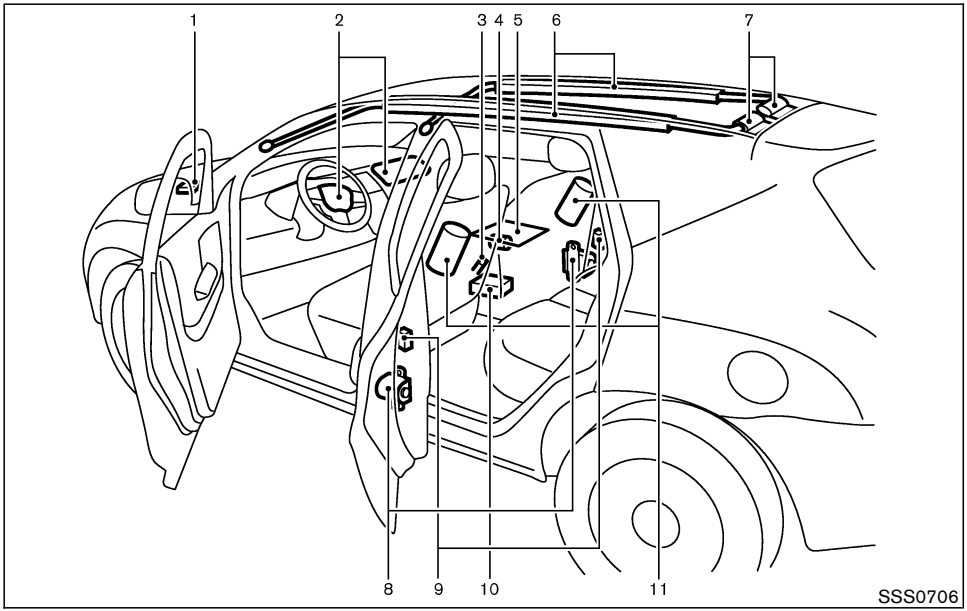

1. Crash zone sensor
2. Supplemental front air bag modules
3. Seat belt buckle switches
4. Occupant classification system control unit
5. Occupant classification sensor (pressure sensor)
6. Supplemental curtain side-impact and roll-over air bags
7. Supplemental curtain side-impact and roll-over air bag modules
8. Seat belt pre-tensioner retractor
9. Satellite sensors
10. Diagnosis sensor unit
11. Supplemental side air bag modules

NISSAN ADVANCED AIR BAG SYSTEM (front seats)

This vehicle is equipped with the NISSAN advanced air bag system for the driver and front passenger seats. This system is designed to meet certification requirements under U.S. regulations. It is also permitted in Canada. **However, all of the information, cautions and warnings in this manual still apply and must be followed.**

The driver supplemental front air bag is located in the center of the steering wheel. The front passenger supplemental front air bag is mounted in the instrument panel above the glove box. The supplemental front air bags are designed to inflate in higher severity frontal collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity frontal impact. They may not inflate in certain frontal collisions. Vehicle damage (or lack of it) is not always an indication of proper supplemental air bag system operation.

The NISSAN advanced air bag system has dual stage inflators. It also monitors information from

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the crash zone sensor, the diagnosis sensor unit, seat belt buckle switches, occupant classification sensor (pressure sensor) and passenger seat belt tension sensor. Inflator operation is based on the severity of a collision and seat belt usage of the driver. For the front passenger, it additionally monitors the weight of an occupant or object on the seat and seat belt tension. Based on information from the sensors, only one front air bag may inflate in a crash, depending on the crash severity and whether the front occupants are belted or unbelted. Additionally, the front passenger air bag may be automatically turned OFF under some conditions, depending on the weight detected on the passenger seat and how the seat belt is used. If the front passenger air bag is OFF, the passenger air bag status light will be illuminated (if the seat is unoccupied, the light will not be illuminated, but the air bag will be off.). See “Front passenger air bag and status light” later in this section for further details. One front air bag inflating does not indicate improper performance of the system.

If you have any questions about your air bag system, contact NISSAN or a NISSAN dealer. If you are considering modifications of your vehicle due to a disability, you may also contact NISSAN. Contact information is contained in the front of this Owner’s Manual.

When a supplemental front air bag inflates, a fairly loud noise may be heard, followed by release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken to not inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Supplemental front air bags, along with the use of seat belts, help to cushion the impact force on the head and chest of the front occupants. They can help save lives and reduce serious injuries. However, an inflating front air bag may cause facial abrasions or other injuries. Front air bags do not provide restraint to the lower body.

Even with NISSAN advanced air bags, seat belts should be correctly worn and the driver and passenger seated upright as far as practical away from the steering wheel or instrument panel. The supplemental front air bags inflate quickly in order to help protect the front occupants. Because of this, the force of the front air bag inflating can increase the risk of injury if the occupant is too close to, or is against, the front air bag module during inflation.

The front air bags deflate quickly after a collision.

The supplemental front air bags operate only when the ignition switch is in the ON or START position.

After turning the ignition switch to the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

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Front passenger air bag status light

Front passenger air bag and status light

WARNING

The front passenger air bag is designed to automatically turn OFF under some conditions. Read this section carefully to learn how it operates. Proper use of the seat, seat belt and child restraints is necessary for most effective protection.

Failure to follow all instructions in this manual concerning the use of seats, seat belts and child restraints can increase the risk or severity of injury in an accident.

Status light:

The front passenger air bag status light is located on the map light cover. The light operates as follows:

- Unoccupied passenger seat: The is OFF and the front passenger air bag is OFF and will not inflate in a crash.
- Passenger seat occupied by a small adult, child or child restraint as outlined in this section: The illuminates to indicate that the front passenger air bag is OFF and will not inflate in a crash.
- Occupied passenger seat and the passenger meets the conditions outlined in this section: The is OFF to indicate that the front passenger air bag is operational.

Front passenger air bag:

The front passenger air bag is designed to automatically turn OFF when the vehicle is operated under some conditions as described below in accordance with U.S. regulations. If the front passenger air bag is OFF, it will not inflate in a crash. The driver air bag and other air bags in your vehicle are not part of this system.

The purpose of the regulation is to help reduce the risk of injury or death from an inflating air bag to certain front passenger seat occupants, such as children, by requiring the air bag to be automatically turned OFF. Certain sensors are used to meet the requirements.

One sensor used is the occupant classification sensor (pressure sensor). It is in the bottom of the front passenger seat cushion and is designed to detect an occupant and objects on the seat by weight. It works together with seat belt sensors described later. For example, if a child is in the front passenger seat, the advanced air bag system is designed to turn the passenger air bag OFF in accordance with the regulations. Also, if a child restraint of the type specified in the regulations is on the seat, its weight and the child's weight can be detected and cause the air bag to turn OFF. The occupant classification sensor operation can vary depending on the front passenger seat belt sensors.

The front passenger seat belt sensors are designed to detect if the seat belt is buckled and the amount of tension on the seat belt, such as when it is in the automatic locking mode (child

restraint mode). Based on the weight on the seat detected by the occupant classification sensor and the belt tension detected on the seat belt, the advanced air bag system determines whether the front passenger air bag should be automatically turned OFF as required by the regulations.

Front passenger seat adult occupants who are properly seated and using the seat belt as outlined in this manual should not cause the passenger air bag to be automatically turned OFF. For small adults it may be turned OFF, however, if the occupant takes his/her weight off the seat cushion (for example, by not sitting upright, by sitting on an edge of the seat, or by otherwise being out of position), this could cause the sensor to turn the air bag OFF. In addition, if the occupant improperly uses the seat belt in the automatic locking mode (child restraint mode), this could cause the air bag to be turned OFF. Always be sure to be seated and wearing the seat belt properly for the most effective protection by the seat belt and supplemental air bag.

NISSAN recommends that pre-teens and children be properly restrained in a rear seat. NISSAN also recommends that appropriate child restraints and booster seats be properly installed in a rear seat. If this is not possible, the occupant classification sensor and seat belt sensors are designed to operate as described above to turn the front passenger air bag OFF for specified child restraints as required by the regulations. Failing to properly secure child restrains and to use the automatic locking mode (child restraint mode) may allow the restraint to tip or move in an accident or sudden stop. This can also result in the passenger air bag inflating in a crash instead of being OFF. See “Child restraints” earlier in this section for proper use and installation.

If the front passenger seat is not occupied, the passenger air bag is designed not to inflate in a crash. However, heavy objects placed on the seat could result in air bag inflation, because of the object’s weight detected by the occupant classification sensor. Other conditions could also result in air bag inflation, such as if a child is standing on the seat, or if two children are on the seat, contrary to the instructions in this manual. Always be sure that you and all vehicle occupants are seated and restrained properly.

Using the passenger air bag status light, you can monitor when the front passenger air bag is automatically turned OFF with the seat occupied. The light will not illuminate when the front passenger seat is unoccupied.

If an adult occupant is in the seat but the passenger air bag status light is illuminated (indicating that the air bag is OFF), it could be that the person is a small adult, or is not sitting on the seat properly or is not using the seat belt properly.

If a child restraint must be used in the front seat, the passenger air bag status light may or may not be illuminated, depending on the size of the child and the type of child restraint being used. If the air bag status light is not illuminated (indicating that the air bag might inflate in a crash), it could be that the child restraint or seat belt is not being used properly. Make sure that the child restraint is installed properly, the seat belt is used properly and the occupant is positioned properly. If the air bag status light is still not illuminated, reposition the occupant or child restraint in a rear seat.

If the passenger air bag status light will not illuminate even though you believe that the child restraint, the seat belt and the occupant are properly positioned, the system may be sensing an unoccupied seat (in which case the air bag is OFF). Your NISSAN dealer can check that the system is OFF by using a special tool. However, until you have confirmed with your dealer that your air bag is working properly, reposition the occupant or child restraint in a rear seat.

The air bag system and passenger air bag status light will take a few seconds to register a change

in the passenger seat status. For example, if a large adult who is sitting in the front passenger seat exits the vehicle, the passenger air bag status light will change from OFF to ON for a few seconds and then to OFF. This is normal system operation and does not indicate a malfunction.

If a malfunction occurs in the front passenger air bag system, the supplemental air bag warning light , located in the meter and gauges area, will blink. Have the system checked by a NISSAN dealer.

Other supplemental front air bag precautions

WARNING

- **Do not place any objects on the steering wheel pad or on the instrument panel. Also, do not place any objects between any occupant and the steering wheel or instrument panel. Such objects may become dangerous projectiles and cause injury if the supplemental front air bag inflates.**
- **Immediately after inflation, several front air bag system components will be hot. Do not touch them; you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of the supplemental air bag system. This is to prevent accidental inflation of the supplemental air bag or damage to the supplemental air bag system.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system or front end structure. This could affect proper operation of the supplemental air bag system.**
- **Tampering with the supplemental front air bag system may result in serious personal injury. Tampering includes changes to the steering wheel and the instrument panel assembly by placing material over the steering wheel pad and above the instrument panel or by installing additional trim material around the air bag system.**
- **Modifying or tampering with the front passenger seat may result in serious personal injury. For example, do not change the front seats by placing material on the seat cushion or by installing additional trim material, such as seat covers, on the seat that are not specifically designed to assure proper air bag operation. Additionally, do not stow any objects under the front passenger seat or the seat cushion and seatback. Such objects may interfere with the proper operation of the occupant classification sensor (pressure sensor).**
- **No unauthorized changes should be made to any components or wiring of the seat belt system. This may affect the supplemental front air bag system. Tampering with the seat belt system may result in serious personal injury.**
- **Work on and around the supplemen-**

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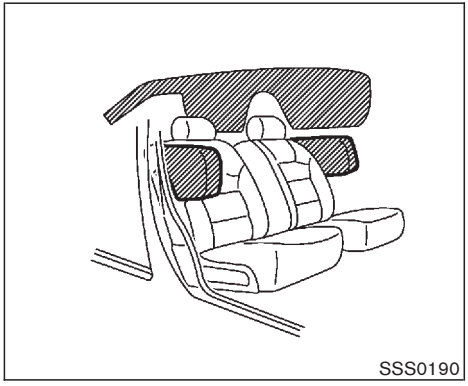
DEALER

tal front air bag system should be done by a NISSAN dealer. Installation of electrical equipment should also be done by a NISSAN dealer. The Supplemental Restraint System (SRS) wiring should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the air bag system.

- **A cracked windshield should be replaced immediately by a qualified repair facility. A cracked windshield could affect the function of the supplemental air bag system.**
- **The SRS wiring harness connectors are yellow and orange for easy identification.**

When selling your vehicle, we request that you inform the buyer about the supplemental front air bag system and guide the buyer to the appropriate sections in this Owner's Manual.


SSS0190

Supplemental side air bag and curtain side-impact and rollover air bag systems

The supplemental side air bags are located in the outside of the seatback of the front seats. The supplemental curtain side-impact and rollover air bags are located in the side roof rails. These systems are designed to meet voluntary guidelines to help reduce the risk of injury to out-of-position occupants. **However, all of the information, cautions and warnings in this manual still apply and must be followed.** The supplemental side air bags and curtain side-impact and rollover air bags are designed to inflate in higher severity side collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity side impact. They are designed to inflate on the side where the vehicle is impacted. They may not inflate in certain side collisions.

Curtain side-impact and rollover air bags are also designed to inflate in certain types of rollover collisions or near rollovers.

Vehicle damage (or lack of it) is not always an indication of proper supplemental side air bag and curtain side-impact and rollover air bag operation.

When the supplemental side air bag and curtain side-impact/rollover air bag inflate, a fairly loud noise may be heard, followed by release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Supplemental side air bags, along with the use of seat belts, help to cushion the impact force on the chest of the front occupants. Curtain side-impact and rollover air bags help to cushion the impact force to the head of occupants in the front and rear outboard seating positions. They can help save lives and reduce serious injuries. However, an inflating side air bag and curtain side-impact/rollover air bag may cause abrasions or other injuries. Supplemental side air bags and curtain side-impact and rollover air

bags do not provide restraint to the lower body.

The seat belts should be correctly worn and the driver and passenger seated upright as far as practical away from the supplemental side air bag. Rear seat passengers should be seated as far away as practical from the door finishers and side roof rails. The side air bags and curtain side-impact and rollover air bags inflate quickly in order to help protect the front and rear outboard occupants. Because of this, the force of the side air bag and curtain side-impact/rollover air bag inflating can increase the risk of injury if the occupant is too close to, or is against, these air bag modules during inflation. The side air bag will deflate quickly after the collision is over.

The curtain side-impact and rollover air bags will remain inflated for a while.

The supplemental side air bags and curtain side-impact and rollover air bags operate only when the ignition switch is in the ON or START position.

After turning the ignition switch to the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the systems are operational.

WARNING

- **Do not place any objects near the seatback of the front seats. Also, do not place any objects (an umbrella, bag, etc.) between the front door finisher and the front seat. Such objects may become dangerous projectiles and cause injury if the supplemental side air bag inflates.**
- **Right after inflation, several side air bag and curtain side-impact and rollover air bag system components will be hot. Do not touch them; you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of the side air bag and curtain side-impact/rollover air bag system. This is to prevent accidental inflation of the side air bag and curtain side-impact/rollover air bag or damage to the side air bag and curtain side-impact/rollover air bag system.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system or side panel. This could affect proper operation of the supplemental side air bag and curtain side-impact/rollover air bag system.**
- **Tampering with the supplemental system may result in serious personal injury. For example, do not change the front seats by placing material near the seatback or by installing additional trim material, such as seat covers, around the side air bag.**
- **Work around and on the side air bag and curtain side-impact/rollover air bag system should be done by a NISSAN dealer. Installation of electrical equipment should also be done by a NISSAN dealer. The SRS wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the side air bag system.**

*** The SRS wiring harnesses connec-**

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tors are yellow or orange for easy identification.

When selling your vehicle, we request that you inform the buyer about the side air bag and curtain side-impact/rollover air bag system and guide the buyer to the appropriate sections in this Owner's Manual.

Pre-tensioner seat belt system (For front seats)

WARNING

- **The pre-tensioner seat belt cannot be reused after activation. It must be replaced together with the retractor and buckle as a unit.**
- **If the vehicle becomes involved in a frontal collision but the pre-tensioner is not activated, be sure to have the pre-tensioner system checked and, if necessary, replaced by a NISSAN dealer.**
- **No unauthorized changes should be made to any components or wiring of the pre-tensioner seat belt system. This is to prevent accidental activation of the pre-tensioner seat belt or damage to the pre-tensioner seat belt operation. Tampering with the pre-tensioner seat belt system may result in serious personal injury.**
- **Work around and on the pre-tensioner seat belt system should be done by a NISSAN dealer. Installation of electrical equipment should also be done by a NISSAN dealer. Unauthorized electrical test equipment and probing devices should not be used on the pre-tensioner seat belt system.**
- **If you need to dispose of the pre-tensioner or scrap the vehicle, contact a NISSAN dealer. Correct pre-tensioner disposal procedures are set forth in the appropriate NISSAN Service Manual. Incorrect disposal procedures could cause personal injury.**

The front seat pre-tensioner seat belt system activates in conjunction with the supplemental front air bag system. Working with the seat belt retractor, it helps tighten the seat belt when the vehicle becomes involved in certain types of collisions, helping to restrain front seat occupants.

Also, the front seat pre-tensioner seat belt system activates in conjunction with the supplemental side-impact/rollover air bag system. Working with the seat belt retractor, it helps tighten the seat belt when the vehicle becomes involved in certain types of rollover collisions or rear rollovers.

The pre-tensioner is encased with the seat belt's retractor. These seat belts are used the same as conventional seat belts.

When the pre-tensioner seat belt activates, smoke is released and a loud noise may be heard. The smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

If any abnormality occurs in the pre-tensioner seat belt system, the supplemental air bag warning light will not come on, will flash intermittently or will turn on for 7 seconds and remain on after the ignition switch has been turned to

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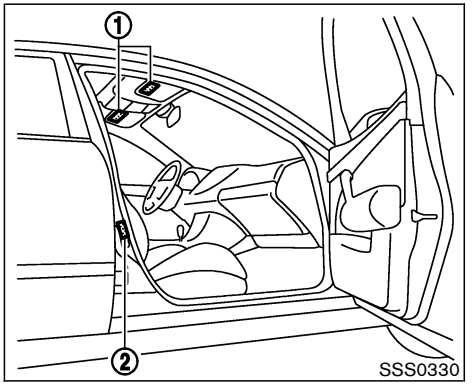
the ON or START position. In this case, the pre-tensioner seat belt may not function properly. They must be checked and repaired. Take your vehicle to a NISSAN dealer.

When selling your vehicle, we request that you inform the buyer about the pre-tensioner seat belt system and guide the buyer to the appropriate sections in this Owner's Manual.



① SRS air bag warning labels

The warning labels are located on the surface of the sun visors.

② SRS side-impact air bag warning label

The warning label is located on the side of the passenger's side center pillar.

SUPPLEMENTAL AIR BAG WARNING LABELS

Warning labels about the supplemental front air bag and supplemental side-impact air bag systems are placed in the vehicle as shown in the illustration.

SPA1097

SUPPLEMENTAL AIR BAG WARNING LIGHT

The supplemental air bag warning light, displaying in the instrument panel, monitors the circuits of the supplemental front air bag, supplemental side air bag and curtain side-impact and rollover air bag systems, and pre-tensioner seat belt systems. The circuits monitored by the supplemental air bag warning light are the diagnosis sensor unit, crash zone sensors, satellite sensors, rollover sensors, front air bag modules, side air bag modules, curtain side-impact/rollover air bag modules, and pre-tensioner seat belts and all related wiring.

After turning the ignition switch to the ON or START position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

If any of the following conditions occur, the supplemental front air bag, supplemental side air bag and curtain side-impact/rollover air bag systems, and pre-tensioner seat belt systems need servicing:

- The supplemental air bag warning light remains on after approximately 7 seconds.
- The supplemental air bag warning light flashes intermittently.
- The supplemental air bag warning light does not come on at all.

Under these conditions, the supplemental front air bags, supplemental side air bags, curtain side-impact/rollover air bags and/or pre-tensioner seat belt may not operate properly. It must be checked and repaired. Take your vehicle to a NISSAN dealer.

WARNING

If the supplemental air bag warning light is on, it could mean that the supplemental front air bag, supplemental side air bag, curtain side-impact/rollover air bag systems and/or pre-tensioner seat belt systems will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked by a NISSAN dealer as soon as possible.

REPAIR AND REPLACEMENT PROCEDURE

The supplemental front air bags, supplemental side air bags, curtain side-impact/rollover air bags and pre-tensioner seat belt are designed to activate on a one-time-only basis. As a reminder, unless it is damaged, the supplemental air bag warning light will remain illuminated after inflation has occurred. Repair and replacement of these systems should be done only by a NISSAN dealer.

When maintenance work is required on the vehicle, the supplemental front air bags, side air bags, curtain side-impact/rollover air bags, related parts and pre-tensioner seat belt should be pointed out to the person conducting the maintenance. The ignition switch should always be in the LOCK position when working under the

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hood or inside the vehicle.

WARNING

- **Once a supplemental front air bag, supplemental side air bag or curtain side-impact/rollover air bag has inflated, the air bag module will not function again and must be replaced. Additionally, if any of the supplemental front air bags inflate, the activated pre-tensioner seat belts must also be replaced. The air bag module and pre-tensioner seat belt system should be replaced by a NISSAN dealer. The air bag module and pre-tensioner seat belt system cannot be repaired.**
- **The supplemental front air bag, side air bag and curtain side-impact/rollover air bag systems and the pre-tensioner seat belt system should be inspected by a NISSAN dealer if there is any damage to the front end or side portion of the vehicle.**
- **If you need to dispose of these supplemental systems or scrap the vehicle, contact a NISSAN dealer. Correct disposal procedures are set forth in the appropriate NISSAN Service Manual. Incorrect disposal procedures could cause personal injury.**

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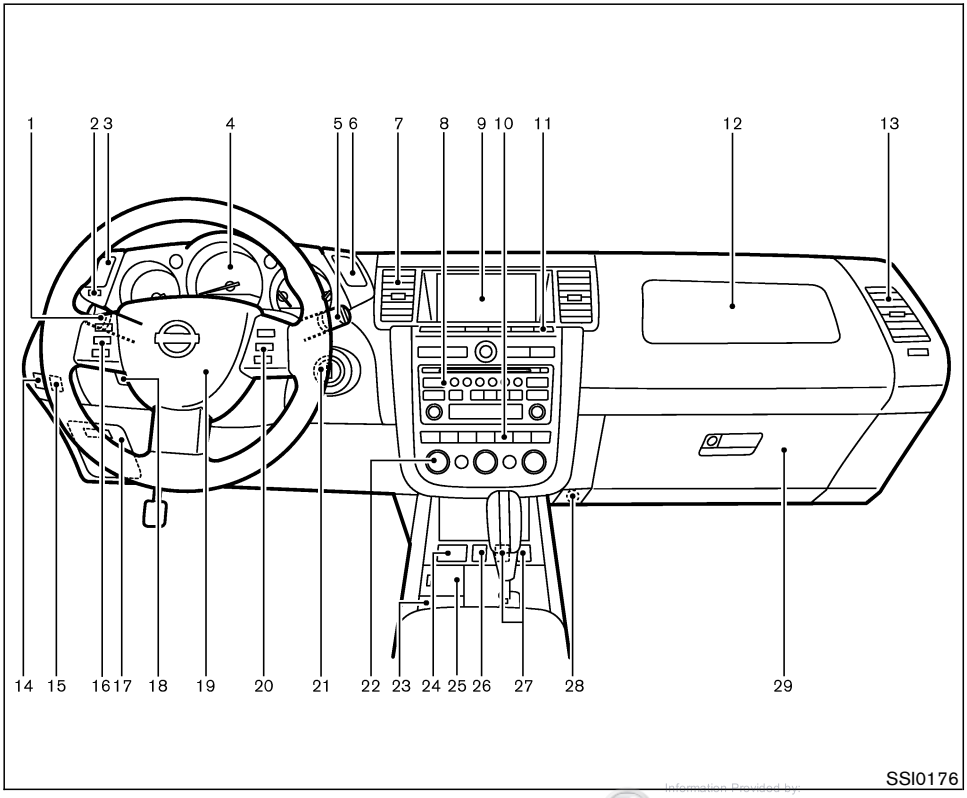
INSTRUMENT PANEL



1. Headlight, fog light* and turn signal switch
2. Trip odometer reset button
3. Instrument brightness control switch
4. Meters/gauges
5. Windshield/rear window wiper and washer switch
6. Hazard warning flasher switch
7. Center ventilator
8. Audio control
9. Display/clock
10. Rear window defroster and Heated outside mirror* switch
11. Display screen control and/or Navigation system*1
12. Passenger supplemental air bag
13. Side ventilator
14. Headlight aiming control switch*
15. Vehicle Dynamic Control (VDC) OFF switch* or Headlight aiming control*
16. Steering switch for audio control*
17. Fuse box cover
18. Tilting steering wheel lock lever
19. Driver supplemental air bag/Horn
20. Cruise control main/set switch
21. Ignition switch/steering lock
22. Heater/air conditioner control
23. Coin box
24. Outside mirror remote control
25. Cellular phone holder
26. AWD lock switch (AWD models)
27. Heated seat switch*
28. Power outlet cover
29. Glove box

*: if so equipped

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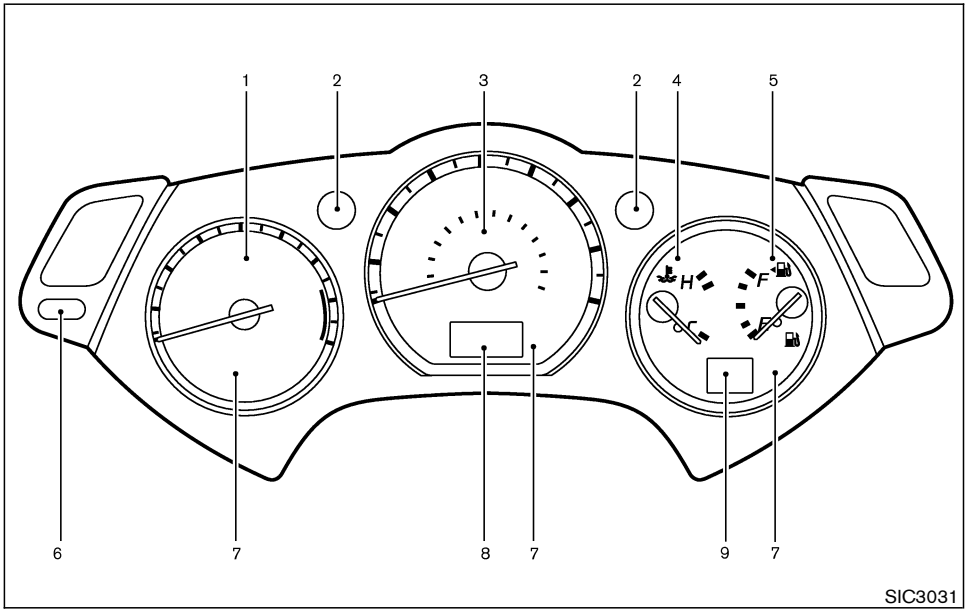
*1: Refer to the separate Navigation System Owner's Manual.



1. Tachometer
2. Turn signal indicator/Hazard indicator
3. Speedometer
4. Engine coolant temperature gauge
5. Fuel gauge
6. Reset button for trip odometer
7. Warning/Indicator lights
8. Odometer (Total/Twin trip)
9. CVT shift position indicator

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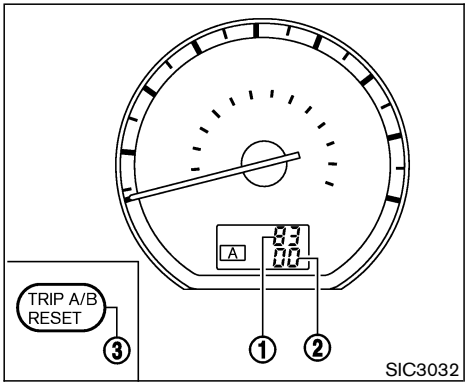


SPEEDOMETER AND ODOMETER

Speedometer

The speedometer indicates vehicle speed.

Odometer/Twin trip odometer

The odometer (1)/twin trip odometer (2) are displayed when the ignition switch is in the ON position.

The odometer records the total distance the vehicle has been driven.

The twin trip odometer records the distance of individual trips.

Changing the display:

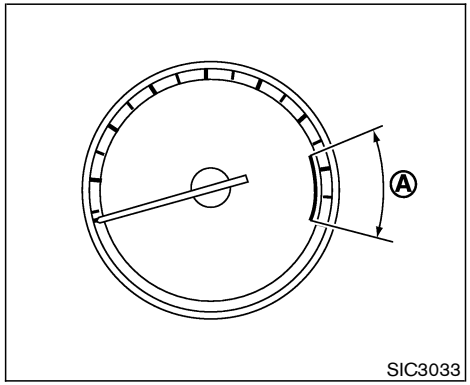
Pushing the reset button (3) located on the left side of the meter panel changes the display as follows:

TRIP A → TRIP B → TRIP A

Resetting the trip odometer:

Pushing the reset button for more than 1 second resets the trip odometer to zero.

Elapsed time, driving distance and average speed information is also available. Refer to “How to use the TRIP button” in the “4. Display screen, heater, air conditioner and audio systems” section later in this manual.



TACHOMETER

The tachometer indicates engine speed in revolutions per minute (rpm).

Do not rev engine into red zone (A).

⚠ CAUTION

When engine speed approaches the red zone, shift to a higher gear. Operating the engine in the red zone may cause serious engine damage.

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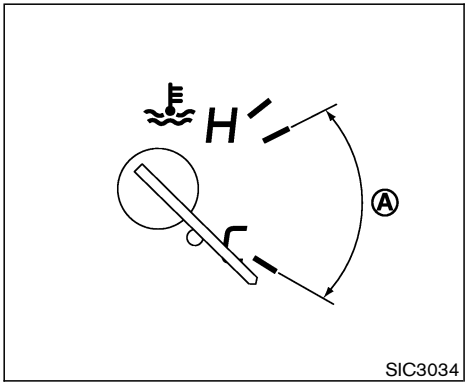


SIC3034

ENGINE COOLANT TEMPERATURE GAUGE

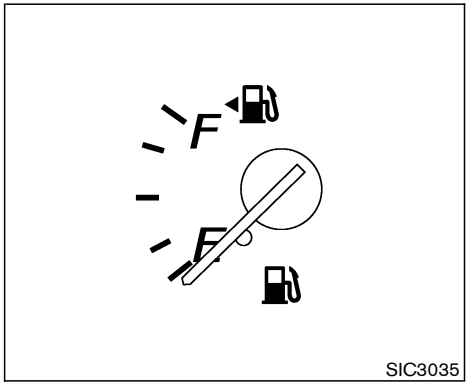
The gauge indicates the engine coolant temperature.

The engine coolant temperature is within the normal range (A) when the gauge needle points within the zone shown in the illustration.

The engine coolant temperature will vary with the outside air temperature and driving conditions.

CAUTION

If the gauge indicates engine coolant temperature near the hot (H) end of the normal range, reduce vehicle speed to decrease temperature. If the gauge is over the normal range, stop the vehicle as soon as safely possible. If the engine is overheated, continued operation of the vehicle may seriously damage the engine. See "If your vehicle overheats" in the "In case of emergency" section for immediate action required.



SIC3035

FUEL GAUGE

The gauge indicates the approximate fuel level in the tank.

The gauge may move slightly during braking, turning, acceleration, or going up or down hill.

The gauge needle is designed to move to the E (Empty) position when the ignition switch is turned to the OFF position.

Refill the fuel tank before the gauge registers Empty.

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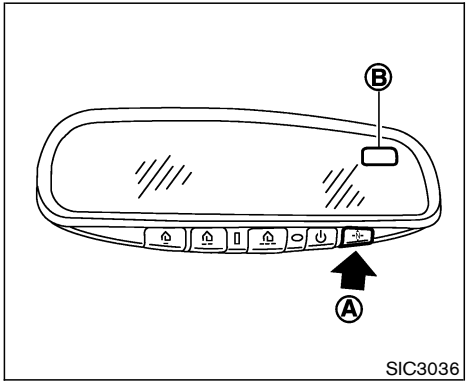
The low fuel warning light comes on when the fuel tank is getting low. Refuel as soon as it is convenient, preferably before the gauge reaches E. There will be a small reserve of fuel in the tank when the fuel gauge needle reaches E.

The ⛽ indicates that the fuel-filler door is located on the driver's side of the vehicle.

⚠ CAUTION

- **If the vehicle runs out of fuel, the SERVICE ENGINE SOON malfunction indicator light (MIL) may come on. Refuel as soon as possible. After a few driving trips, the SERVICE ENGINE SOON light should turn off. If the light remains on after a few driving trips, have the vehicle inspected by a NISSAN dealer.**
- **For additional information, see "Malfunction indicator light (MIL)" later in this section.**

COMPASS DISPLAY (if so equipped)



When the compass switch Ⓐ is pushed, the compass display Ⓑ will indicate the direction the vehicle is heading.

N: north
E: east
S: south
W: west

If the display reads "C", calibrate the compass by driving the vehicle in 3 complete circles at less than 5 MPH (8 km/h).

You can also calibrate the compass by driving your vehicle on your everyday route. The compass will be calibrated once it has tracked 3 complete circles.

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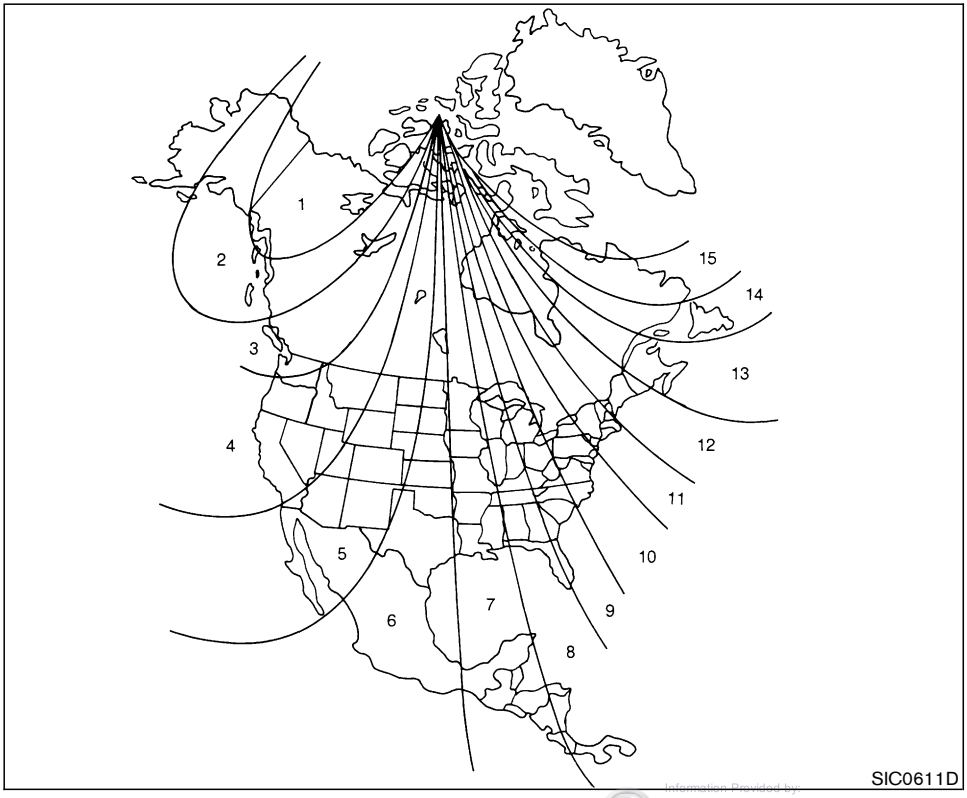

Zone variation change procedure

The difference between magnetic north and geographical north is known as variance. In some areas, this difference can sometimes be great enough to cause false compass readings. Follow these instructions to set the variance for your particular location if this happens:

1. Push the compass switch for more than 3 seconds. The current zone number will appear in the display.
2. Find your current location and variance one number on the zone map.
3. Push the compass switch until the new zone number appears in the display. After you stop pushing the switch in, the display will show a compass direction within a few seconds.

Inaccurate compass direction:

1. With the display turned on, push the compass switch for 3 seconds, until the zone selection comes up (a number will be displayed in the mirror compass window).
2. Toggle until correct zone is found and release switch.
3. It returns to the normal compass mode within 10 seconds of no switch activity.

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4. If the vehicle changes zone, repeat steps 1 thru 3. See map.

- If the compass deviates from the correct indication soon after repeated adjustment, have the compass checked at an authorized dealer.
- The compass may not indicate the correct compass point in tunnels or while driving up or down a steep hill.
  (The compass returns to the correct compass point when the vehicle moves to an area where the geomagnetism is stabilized.)

CAUTION

- **Do not install a ski rack, antenna, etc., which are attached to the vehicle by means of a magnet. They affect the operation of the compass.**
- **When cleaning the mirror, use a paper towel or similar material dampened with glass cleaner. Do not spray glass cleaner directly on the mirror as it may cause the liquid cleaner to enter the mirror housing.**

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WARNING/INDICATOR LIGHTS AND AUDIBLE REMINDERS

AWD — All-Wheel Drive (AWD) warning light (AWD models)	Low tire pressure warning light	SET — Cruise set indicator light
ABS or (ABS) — Anti-lock Braking System (ABS) warning light	Low washer fluid warning light	PASS AIR BAG OFF — Front passenger air bag status light
BRAKE or (!) — Brake warning light	P SHIFT — P position selecting warning light (if so equipped)	High beam indicator light (Blue)
Charge warning light	Seat belt warning light	SERVICE ENGINE SOON — Malfunction indicator light (MIL)
Door open warning light	Supplemental air bag warning light	Security indicator light
Engine oil pressure warning light	AWD LOCK — All-Wheel Drive (AWD) LOCK indicator light (AWD models)	SLIP — Slip indicator light (if so equipped)
KEY — Intelligent Key warning light (if so equipped)	CVT — Continuously Variable Transmission (CVT) indicator light	Turn signal/hazard indicator lights
Low fuel warning light	CRUISE — Cruise main switch indicator light	VDC OFF — Vehicle Dynamic Control (VDC) OFF indicator light (if so equipped)

CHECKING BULBS

Apply the parking brake and turn the ignition switch to ON without starting the engine. The following lights will come on:

, BRAKE or , , SERVICE ENGINE SOON, AWD

The following lights come on briefly and then go off:

, ABS or , AWD LOCK, CVT, , SLIP, VDC OFF, P SHIFT, KEY

If any light fails to come on, it may indicate a burned-out bulb or an open circuit in the electrical system. Have the system repaired promptly.

WARNING LIGHTS

AWD All-wheel drive (AWD) warning light (AWD models)

The **AWD** warning light comes on when the ignition switch is turned to ON. It turns off soon after the engine is started.

If the AWD system malfunctions or the revolution, or radius of the front and the rear wheel

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differs, the warning light will either remain illuminated or blink. See “Using all-wheel drive (AWD)” in the “5. Starting and driving” section.

CAUTION

- **If the warning light comes on while driving, AWD mode will change to 2WD mode. Reduce the vehicle speed and have your vehicle checked by a NISSAN dealer as soon as possible.**
- **Do not drive on dry hard surface roads in the LOCK mode.**
- **If the AWD warning light blinks when you are driving:**
  - **blinks rapidly (about twice a second):**
    Pull off the road in a safe area, and idle the engine. The driving mode will change to 2WD to prevent the AWD system from malfunctioning. If the warning light turns off, you can drive again.
  - **blinks slowly (about once every 2 seconds):**
    Pull off the road in a safe area, and idle the engine. Check that all tire sizes are the same, tire pressure is correct and tires are not worn.

If the warning light is still on after the above operation, have your vehicle checked by a NISSAN dealer as soon as possible.

ABS or Anti-lock Braking System (ABS) warning light

When the ignition switch is in the ON position, the Anti-lock Braking System (ABS) warning light illuminates and then turns off. This indicates the ABS is operational.

If the ABS warning light illuminates while the engine is running, or while driving, it may indicate the ABS is not functioning properly. Have the system checked by a NISSAN dealer.

If an ABS malfunction occurs, the anti-lock function is turned off. The brake system then operates normally, but without anti-lock assistance. See “Brake system” in the “5. Starting and driving” section.

BRAKE or Brake warning light

This light functions for both the parking brake and the foot brake systems.

Parking brake indicator:

When the ignition switch is in the ON position, the light comes on when the parking brake is applied.

Low brake fluid warning light:

The light warns of a low brake fluid level. If the light comes on while the engine is running with the parking brake not applied, stop the vehicle and perform the following:

1. Check the brake fluid level. Add brake fluid as necessary. See “Brake fluid” in the “8. Maintenance and do-it-yourself” section.
2. If the brake fluid level is correct, have the warning system checked by a NISSAN dealer.

WARNING

- **Your brake system may not be working properly if the warning light is on.**

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Driving could be dangerous. If you judge it to be safe, drive carefully to the nearest service station for repairs. Otherwise, have your vehicle towed because driving it could be dangerous.

- **Pressing the brake pedal with the engine stopped and/or a low brake fluid level may increase your stopping distance and braking will require greater pedal effort as well as pedal travel.**
- **If the brake fluid level is below the MINIMUM or MIN mark on the brake fluid reservoir, do not drive until the brake system has been checked at a NISSAN dealer.**

Anti-lock braking system warning indicator:

When the parking brake is released and the brake fluid level is sufficient, if both the brake warning light and the anti-lock braking warning light illuminate, it may indicate the anti-lock braking system is not functioning properly. Have the brake system checked by a NISSAN dealer. See “Anti-lock braking warning light” earlier in this section.

Charge warning light

If the light comes on while the engine is running, it may indicate that the charging system is not functioning properly. Turn the engine off and check the generator belt. If the belt is loose, broken, missing or if the light remains on, see a NISSAN dealer immediately.

CAUTION

Do not continue driving if the generator belt is loose, broken or missing.

Door open warning light

This light comes on when any of the doors are not closed securely while the ignition switch is ON.

Engine oil pressure warning light

This light warns of low engine oil pressure. If the light blinks or comes on during normal driving, pull off the road in a safe area, stop the engine **immediately** and call a NISSAN dealer or other authorized repair shop.

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The oil pressure warning light is not designed to indicate a low oil level. Use the dipstick to check the oil level. See “Engine oil” in the “8. Maintenance and do-it-yourself” section.

CAUTION

Running the engine with the engine oil pressure warning light on could cause serious damage to the engine almost immediately. Turn off the engine as soon as it is safe to do so.

Intelligent Key warning light (for Intelligent Key system)

This light comes on in green when it is possible to turn the ignition switch.

When the light comes on in red, it is not possible to turn the ignition switch.

- The warning light blinks in red when the Intelligent Key is outside the vehicle with the ignition switch in the ACC or ON position. Confirm the location of the key as soon as possible when the warning light blinks in red. Be sure to carry the Intelligent Key with you while driving the vehicle.

- The warning light goes off about 10 seconds after the Intelligent Key is brought inside the vehicle.

Low fuel warning light

This light comes on when the fuel in the tank is getting low. Refuel as soon as it is convenient, preferably before the fuel gauge reaches E.

There will be a small reserve of fuel remaining in the tank when the fuel gauge needle reaches E.

Low tire pressure warning light

Your vehicle is equipped with a tire pressure monitoring system (TPMS) that monitors the tire pressure of all tires except the spare.

The low tire pressure warning light warns of low tire pressure or indicates that the TPMS is not functioning properly.

After the ignition switch is turned ON, this light illuminates for about 1 second and turns off.

Low tire pressure warning:

If the vehicle is being driven with low tire pressure, the warning light will illuminate. If you select the tire pressure information (if so equipped) in the display, the FLAT TIRE warning message will be displayed. The tire pressure for each tire will also be displayed.

When the low tire pressure warning light illuminates, you should stop and adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label.

The low tire pressure warning light does not automatically turn off when the tire pressure is adjusted. After the tire is inflated to the recommended pressure, the vehicle must be driven at speeds above 16 MPH (25 km/h) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.

For additional information, see “Tire pressure monitoring system (TPMS)” in the “5. Starting and driving” section and the “6. In case of emergency” section.

TPMS malfunction:

If the TPMS is not functioning properly, the low tire pressure warning light will flash for approximately 1 minute when the ignition switch is turned ON. The light will remain on after the 1 minute. Have the system checked by a NISSAN dealer.

For additional information, see “Tire pressure monitoring system (TPMS)” in the “5. Starting and driving” section.

WARNING

- **If the light does not illuminate with the ignition switch turned ON, have the vehicle checked by a NISSAN dealer as soon as possible.**
- **If the light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If the light still comes on while driving after adjusting the tire pressure, a tire may be flat. If you have a flat tire, replace it with a spare tire as soon as possible.**

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- **When a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute and remain on after the 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**

⚠ CAUTION

- **The TPMS is not a substitute for the regular tire pressure check. Be sure to check the tire pressure regularly.**
- **If the vehicle is being driven at speeds of less than 16 MPH (25 km/h), the TPMS may not operate correctly.**
- **Be sure to install the specified size of tires to the 4 wheels correctly.**

Low washer fluid warning light

This light comes on when the washer tank fluid is at a low level. Add washer fluid as necessary. See “Window washer fluid” in the “8. Maintenance and do-it-yourself” section.

P position selecting warning light (for Intelligent Key system)

The light blinks in red and warning buzzer beeps when the selector lever is not in the P position and you are outside the vehicle with the Intelligent Key.

When the warning light blinks, move the selector lever to the P position and return the ignition switch to the LOCK position.

Seat belt warning light and chime

The light and chime remind you to fasten seat belts. The light illuminates whenever the ignition switch key is turned to ON, and will remain illuminated until the driver’s seat belt is fastened. At the same time, the chime will sound for about 6 seconds unless the driver’s seat belt is securely fastened.

The seat belt warning light may also illuminate if the front passenger seat belt is not fastened when the front passenger’s seat is occupied. For 5 seconds after the ignition switch is in the ON position, the system does not activate the warning light for the front passenger.

See “Seat belts” in the “1. Safety — seats, seat belts and supplemental restraint system” section for precautions on seat belt usage.

Supplemental air bag warning light

After turning the ignition switch to the ON position, the supplemental air bag warning light will illuminate. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

If any of the following conditions occur, the supplemental front air bag, supplemental side air bag and curtain side-impact air bag systems, and pre-tensioner seat belt needs servicing and your vehicle must be taken to a NISSAN dealer.

- The supplemental air bag warning light remains on after approximately 7 seconds.
- The supplemental air bag warning light flashes intermittently.

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- The supplemental air bag warning light does not come on at all.

Unless checked and repaired, the Supplemental Restraint System and/or the pre-tensioner seat belt may not function properly. For additional information, see “Supplemental restraint system” in the “1. Safety — seats, seat belts and supplemental restraint system” section.

WARNING

If the supplemental air bag warning light is on, it could mean that the supplemental front air bag, supplemental side air bag, curtain air bag systems and/or pre-tensioner seat belt system will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked by a NISSAN dealer as soon as possible.

INDICATOR LIGHTS

AWD LOCK All-wheel drive (AWD) LOCK indicator light (AWD models)

This light comes on when the ignition switch is turned to ON, and turns off within 1 second.

When selecting LOCK mode while the engine is running, this light will illuminate. See “Using all-wheel drive (AWD)” in the “5. Starting and driving” section.

CVT Continuously variable transmission (CVT) indicator light

When the ignition switch is turned ON, the light comes on for 2 seconds.

CRUISE Cruise main switch indicator light

The light comes on when the cruise control main switch is pushed. The light goes out when the main switch is pushed again. When the cruise main switch indicator light comes on, the cruise control system is operational.

SET Cruise set indicator light

The light comes on while the vehicle speed is controlled by the cruise control system. If the light blinks while the engine is running, it may indicate the cruise control system is not functioning properly. Have the system checked by a NISSAN dealer.

PASS AIR BAG OFF Front passenger air bag status light

The front passenger air bag status light (PASS AIR BAG OFF) will be lit and the passenger front air bag will be OFF depending on how the front passenger seat is being used.

For front passenger air bag status light operation, see “NISSAN advanced air bag system” in the “1. Safety — Seats, seat belts and supplemental restraint system” section of this manual.

High beam indicator light (Blue)

This light comes on when the headlight high beam is on and goes out when the low beam is selected.

SERVICE ENGINE SOON Malfunction indicator light (MIL)

If the malfunction indicator light comes on steady or blinks while the engine is running, it may indicate a potential emission control and/or CVT malfunction.

The malfunction indicator light may also come on steady if the fuel-filler cap is loose or missing, or if the vehicle runs out of fuel. Check to make sure the fuel-filler cap is installed and closed tightly,

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and that the vehicle has at least three gallons of fuel in the fuel tank.

After a few driving trips, the SERVICE ENGINE SOON light should turn off if no other potential emission control system malfunction exists.

If this indicator light comes on continuously for 20 seconds and then blinks for 10 seconds when the engine is not running, it indicates that the vehicle is not ready for an emission control system inspection/maintenance test. See “Readiness for inspection/maintenance (I/M) test” in the “9. Technical and consumer information” section of this manual.

Operation:

The malfunction indicator light will come on in one of two ways:

- Malfunction indicator light on steady — An emission control system and/or CVT malfunction has been detected. Turn the ignition switch to OFF and check the fuel-filler cap. If the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The SERVICE ENGINE SOON light should turn off after a few driving trips. If the SERVICE ENGINE SOON light does not turn off after a few driving trips, have the vehicle inspected by a NISSAN dealer. You do not need to have your vehicle towed to the dealer.
- Malfunction indicator light blinking — An engine misfire has been detected which may damage the emission control system. To reduce or avoid emission control system damage:

  a) Do not drive at speeds above 45 MPH (72 km/h).
  b) Avoid hard acceleration or deceleration.
  c) Avoid steep uphill grades.
  d) If possible, reduce the amount of cargo being hauled or towed.

  The malfunction indicator light may stop blinking and come on steady.

  Have the vehicle inspected by a NISSAN dealer. You do not need to have your vehicle towed to the dealer.

CAUTION

Continued vehicle operation without having the emission control system checked and repaired as necessary could lead to poor driveability, reduced fuel economy, and possible damage to the emission control system.

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Security indicator light

Model without Intelligent Key system:

This light blinks whenever the ignition switch is in the LOCK, OFF or ACC position.

Model with Intelligent Key system:

This light blinks whenever the ignition switch is not pushed in or the mechanical key is removed from the ignition switch.

This function indicates the security systems equipped on the vehicle are operational.

For additional information, see “Security systems” later in this section.

SLIP Slip indicator light (if so equipped)

When the ignition switch is in the “ON” position, the slip indicator light illuminates and then turns off. This indicates the Vehicle Dynamic Control (VDC) system is operational.

This indicator will blink when the VDC system or the traction control system is operating, thus alerting the driver to the fact that the road surface is slippery and the vehicle is nearing its traction limits.

If the VDC off indicator light and slip indicator light illuminate while the engine is running or

while driving, it may indicate the VDC system is not functioning properly and may need servicing. Have the system checked, and if necessary repaired, by a NISSAN dealer promptly. (See “VEHICLE DYNAMIC CONTROL (VDC) SYSTEM” in the “5. Starting and driving” section.)

Turn signal/hazard indicator lights

The light flashes when the turn signal switch lever or hazard switch is turned on.

Vehicle Dynamic Control (VDC) OFF indicator light (if so equipped)

After turning the ignition switch to the ON position, the light will illuminate. The light will turn off in about 2 seconds if the Vehicle Dynamic Control (VDC) system is operational.

The light comes on when the Vehicle Dynamic Control (VDC) OFF switch is pushed to OFF. This indicates the Vehicle Dynamic Control system and traction control system are not operating. When the Vehicle Dynamic Control OFF indicator light and slip indicator light come on with the Vehicle Dynamic Control system turned on, this light alerts the driver to the fact that the Vehicle Dynamic Control system’s fail-safe mode is operating, that is the system may not be functioning properly. Have the system checked by a NISSAN dealer. If a malfunction occurs in the system, the Vehicle Dynamic Control system function will be canceled but the vehicle is still driveable. For additional information, see “Vehicle Dynamic Control (VDC) system” in the “5. Starting and driving” section of this manual.

AUDIBLE REMINDERS

Key reminder chime

The key reminder chime sounds if the driver’s side door is opened while the key is left in the ignition switch and the ignition switch is in the “ACC”, “OFF” or “LOCK” position. Remove the key and take it with you when leaving the vehicle.

Light reminder chime

The light reminder chime sounds if the driver’s side door is opened while the headlight switch is at either the or position and the ignition switch is in the ACC, OFF or LOCK position.

Make sure to turn the light switch to the “OFF” or “AUTO” position when you leave the vehicle.

Seat belt warning chime

The chime will sound for about 6 seconds unless the driver’s seat belt is securely fastened.

Brake pad wear warning

The disc brake pads have audible wear warnings. When a brake pad requires replacement, it will make a high pitched scraping sound when the vehicle is in motion whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the warning sound is heard.

Intelligent Key door buzzer

When the chime or buzzer sounds from inside and outside the vehicle, check for the following:

- The ignition switch is turned to the LOCK position.
- The Intelligent Key is not left inside the vehicle.
- Doors are closed securely.
- The selector lever is in the P position.

When the buzzer sounds, be sure to check both the vehicle and the Intelligent Key.

See “INTELLIGENT KEY SYSTEM” in the “3. Pre-driving checks and adjustments” section.

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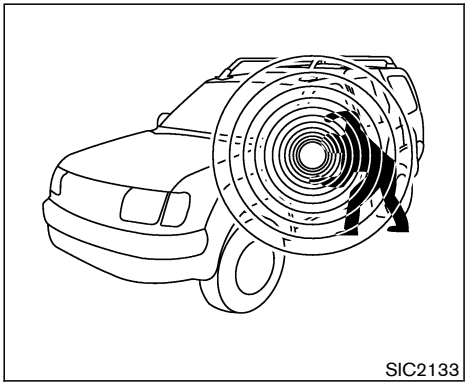

SIC2133

Your vehicle has one or both types of security systems, as follows:

- Vehicle Security System (if so equipped)
- NISSAN Vehicle Immobilizer System

The security condition will be shown by the security indicator light in the meter panel.

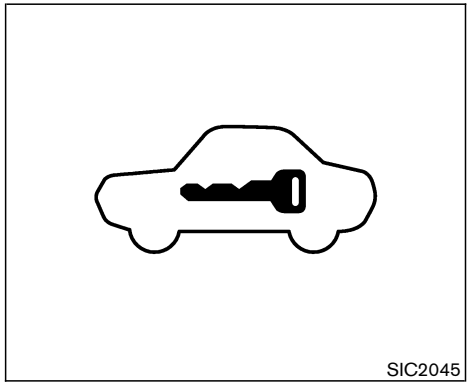
VEHICLE SECURITY SYSTEM (if so equipped)

The vehicle security system provides visual and audible alarm signals if someone opens the doors when the system is armed. It is not, however, a motion detection type system that activates when a vehicle is moved or when a vibration occurs.

The system helps deter vehicle theft but cannot prevent it, nor can it prevent the theft of interior or exterior vehicle components in all situations. Always secure your vehicle even if parking for a brief period. Never leave your keys in the vehicle, and always lock the vehicle when unattended. Be aware of your surroundings, and park in secure, well-lit areas whenever possible.

Many devices offering additional protection, such as component locks, identification markers, and tracking systems, are available at auto supply stores and specialty shops. A NISSAN dealer may also offer such equipment. Check with your insurance company to see if you may be eligible for discounts for various theft protection features.

The vehicle security system provides visual and audio alarm signals if parts of the vehicle are disturbed.


SIC2045

How to activate the vehicle security system

1. Close all windows.

The system can be activated even if the windows are open.

2. • Remove the key from the ignition switch.
   • Turn the ignition switch to the LOCK position or remove the mechanical key from the ignition switch (Intelligent Key equipped model)
3. Close and lock all doors.

   Lock all doors by pushing the LOCK button

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on the remote keyless entry, pushing the request switch (Intelligent Key equipped model) or using the key.

When using the remote keyless entry system or the request switch, the hazard indicators will operate as shown in “Remote keyless entry system” or “Intelligent Key system” in the “3. Pre-driving checks and adjustments” section.

4. Confirm that the SECURITY indicator light in the meter comes on. The SECURITY indicator light glows for about 30 seconds and then blinks. The system is now activated. If, during this 30 second time period, the door is unlocked by the key, the remote keyless entry, request switch or the ignition switch is turned to ACC or ON, the system will not activate.

Even when the driver and/or passengers are in the vehicle, the system will activate with all doors locked and ignition switch off. Turn the ignition switch to ACC to turn the system off.

Vehicle security system operation

The security system will give the following alarm:

- The headlights blink and the horn sounds intermittently.
- The alarm automatically turns off after approximately 1 minute. However, the alarm reactivates if the vehicle is tampered with again. The alarm can be stopped by unlocking a door with the key, by pushing the UNLOCK button on the remote keyless entry or pushing the request switch.

The alarm is activated by:

- Opening the door (including the lift gate) without using the key, remote keyless entry or pushing the request switch.

How to stop alarm

The alarm will stop only by unlocking a door with the key, by pushing the UNLOCK button on remote keyless entry, or pushing the request switch (when carrying the Intelligent Key with you). The alarm will not stop if the ignition switch is turned to ACC or ON.

If the system does not operate as described above, have it checked by a NISSAN dealer.

NISSAN VEHICLE IMMOBILIZER SYSTEM

The NISSAN Vehicle Immobilizer System will not allow the engine to start without the use of the registered NISSAN Vehicle Immobilizer System key.

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If the engine fails to start using the registered NISSAN Vehicle Immobilizer System key, it may be due to interference caused by another NISSAN Vehicle Immobilizer System key, an automated toll road device or automated payment device on the key ring. Restart the engine using the following procedures:

1. Leave the ignition switch in the ON position for approximately 5 seconds.
2. Turn the ignition switch to the OFF or LOCK position and wait approximately 10 seconds.
3. Repeat step 1 and 2 again.
4. Restart the engine while holding the device (which may have caused the interference) separate from the registered NISSAN Vehicle Immobilizer System key.

   If this procedure allows the engine to start, NISSAN recommends placing the registered NISSAN Vehicle Immobilizer System key on a separate key ring to avoid interference from other devices.

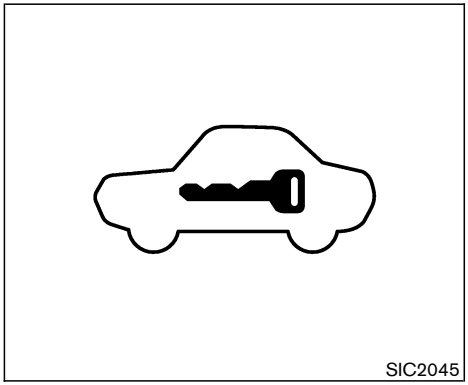
Statement related to section 15 of FCC rules for NISSAN Vehicle Immobilizer System (CONT ASSY-BCM, ANT ASSY-IMMOBILIZER)

This device complies with part 15 of the FCC Rules and RSS-210 of Industry

Canada. Operation is subject to the following two conditions;

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.



Security indicator light

This light blinks whenever the registered NISSAN Vehicle Immobilizer System key or mechanical key (Intelligent Key) is removed or turned to the OFF, ACC or LOCK position, or the ignition switch is turned to the LOCK position (Intelligent Key). This function indicates the security systems equipped on the vehicle are operational.

If NISSAN Vehicle Immobilizer System is malfunctioning, this light will remain on while the registered NISSAN Vehicle Immobilizer System Key is in the ON position.

If the light still remains on and/or the engine will not start, see a NISSAN dealer for NISSAN Vehicle Immobilizer System or Intelligent Key system service as soon as possible. Bring all NISSAN Vehicle Immobilizer System keys or Intelligent Key that you have when visiting a NISSAN dealer for service.

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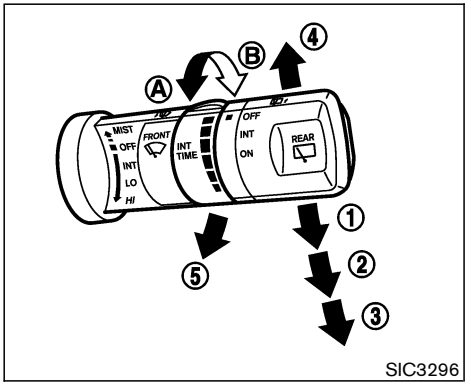
WINDSHIELD WIPER AND WASHER SWITCH



The windshield wiper and washer operates when the ignition switch is in the ON position.

Push the lever down to operate the wiper at the following speed:

(1) Intermittent (INT) — intermittent operation can be adjusted by turning the knob toward (A) (Slower) or (B) (Faster).

(2) Low (LO) — continuous low speed operation

(3) High (HI) — continuous high speed operation

Push the lever up (4) to have one sweep operation (MIST) of the wiper.

Pull the lever toward you (5) to operate the washer. Then the wiper will also operate several times.

WARNING

In freezing temperatures the washer solution may freeze on the windshield and obscure your vision which may lead to an accident. Warm the windshield with the defroster before you wash the windshield.

CAUTION

- **Do not operate the washer continuously for more than 30 seconds.**
- **Do not operate the washer if the reservoir tank is empty.**
- **Do not fill the window washer reservoir tank with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the window washer reservoir tank.**
- **Pre-mix washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the window washer reservoir tank. Do not use the window washer reservoir tank to mix the washer fluid concentrate and water.**

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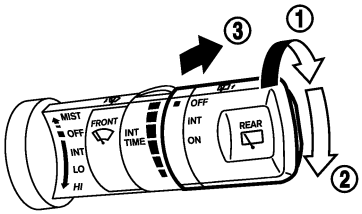
REAR WINDOW WIPER AND WASHER SWITCH



SIC3297

The rear window wiper and washer operate when the ignition switch is in the ON position.

Turn the switch clockwise from the OFF position to operate the wiper.

(1) Intermittent (INT) — intermittent operation (not adjustable)

(2) Low (ON) — continuous low speed operation

Push the switch forward (3) to operate the washer. Then the wiper will also operate several times.

WARNING

In freezing temperatures the washer solution may freeze on the rear window glass and obscure your vision. Warm the rear window with the defroster before you wash the rear window.

CAUTION

- **If the rear window wiper operation is interrupted by snow etc., the wiper may stop moving to protect its motor. If this occurs, turn the wiper switch to OFF and remove the snow etc. on and around the wiper arms. After about 1 minute, turn the switch ON again to operate the wiper.**
- **Do not operate the washer continuously for more than 30 seconds.**
- **Do not operate the washer if the reservoir tank is empty.**
- **Do not fill the window washer reservoir tank with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the window washer reservoir tank.**
- **Pre-mix washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the window washer reservoir tank. Do not use the window washer reservoir tank to mix the washer fluid concentrate and water.**

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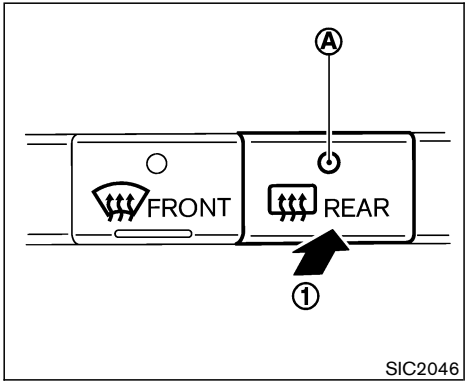
REAR WINDOW AND OUTSIDE MIRROR DEFROSTER SWITCH



To defog/defrost the rear window glass and outside mirrors (if so equipped), start the engine and push the switch on (1). The indicator light (A) will come on. Push the switch again to turn the defroster off.

It will automatically turn off in approximately 15 minutes.

CAUTION

When cleaning the inner side of the rear window, be careful not to scratch or damage the rear window defroster.

HEADLIGHT AND TURN SIGNAL SWITCH

XENON HEADLIGHTS (if so equipped)

WARNING

HIGH VOLTAGE

- **When xenon headlights are on, they produce a high voltage. To prevent an electric shock, never attempt to modify or disassemble. Always have your xenon headlights replaced at a NISSAN dealer.**
- **Xenon headlights provide considerably more light than conventional headlights. If they are not correctly aimed, they might temporarily blind an oncoming driver or the driver ahead of you and cause a serious accident. If headlights are not aimed correctly, immediately take your vehicle to a NISSAN dealer and have the headlights adjusted correctly.**

When the xenon headlight is initially turned on, its brightness or color varies slightly. However, the color and brightness will soon stabilize.

- **The life of xenon headlights will be shortened by frequent on-off operation. It is generally desirable not to turn off the headlights for short intervals (for example, when the vehicle stops at a traffic signal). Even when the daytime running lights are active (Canada only), the xenon headlights do not turn on. This way the life of the xenon headlights is not reduced.**
- **If the xenon headlight bulb is close to burning out, the brightness will drastically decrease, the light will start blinking, or the color of the light will become reddish. If one or more of the above signs appear, contact a NISSAN dealer.**

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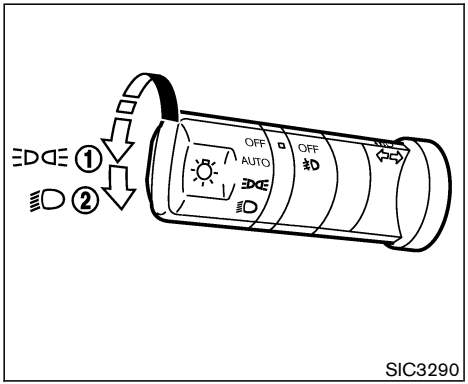
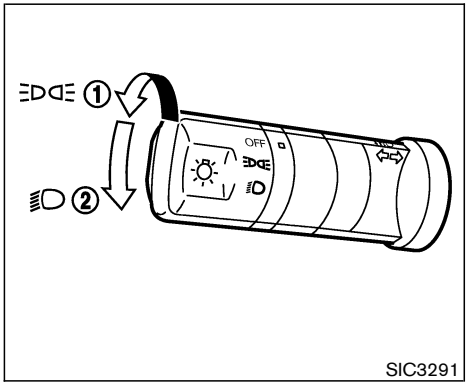
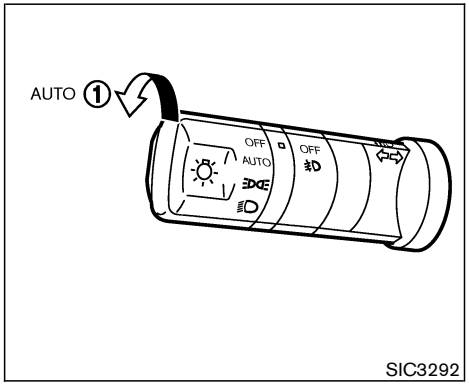


Type A



Type B



HEADLIGHT SWITCH

Lighting

(1) Turn the switch to the position:

The front park, side marker, tail, license plate and instrument lights will come on.

(2) Turn the switch to the position:

Headlights will come on and all the other lights remain on.

CAUTION

Use the headlights with the engine running to avoid discharging the vehicle battery.

Autolight system (if so equipped)

The autolight system allows the headlights to be set so they turn on and off automatically.

To set the autolight system:

1. Turn the headlight switch to the AUTO position.
2. Turn the ignition switch to ON.
3. The autolight system automatically turns the headlights on and off.

To turn the autolight system off, turn the switch to the OFF, or position.

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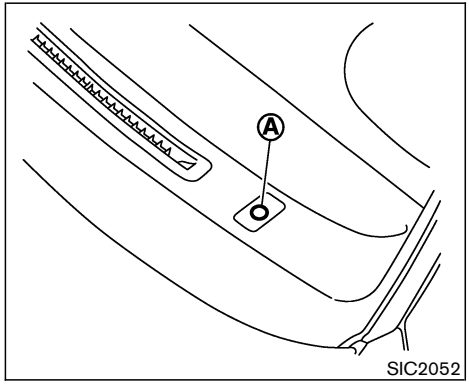
The autolight system can turn on the headlights automatically when it is dark and turn off the headlights when it is light, and keep the headlights on for up to 45 seconds after you turn the ignition switch to the OFF position and open any door then close all the doors. The headlight off time can be adjusted on the system setting display. See the “4. Display screen, heater, air conditioner and audio system” section.

If the ignition switch is turned OFF and one of the doors is opened and this condition is continued, the headlights remain ON for 5 minutes.



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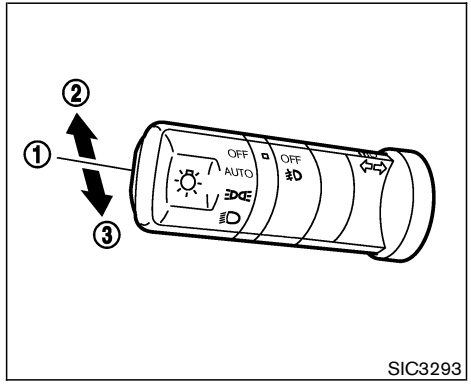
Be sure not to put anything on top of the photo sensor Ⓐ located on the top left-hand side of the instrument panel. The photo sensor controls the autolight; if it is covered, the photo sensor reacts as if it is dark and the headlights will illuminate.



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Headlight beam select

① To select the low beam, put the lever in the neutral position as shown.

② To select the high beam, push the lever forward while the switch is in the position. Pull it back to select the low beam.

③ Pulling the lever toward you will flash the headlight high beam.

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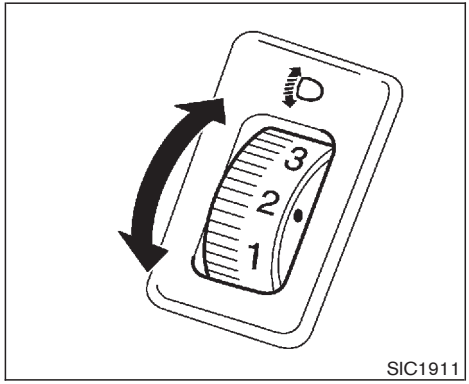
Battery saver system

- When the headlight switch is in the ≡D◁≡ or position while the ignition switch is in the ON position, the lights will automatically turn off 5 minutes after the ignition switch has been turned to the OFF position.
- When the headlight switch remains in the ≡D◁≡ or position after the lights automatically turn off, the lights will turn on for 5 minutes when the headlight switch is turned to the OFF position and then turned to the ≡D◁≡ or position.

⚠ CAUTION

Even though the battery saver feature automatically turns off the headlights after a period of time, you should turn the headlight switch to the OFF position when the engine is not running to avoid discharging the vehicle battery.



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Headlight aiming control (if so equipped)

Depending on the number of occupants in the vehicle and the load it is carrying, the headlight axis may be higher than desired. If the vehicle is traveling on a hilly road, the headlights may directly hit the rearview mirror of the vehicle ahead or the windshield of the oncoming vehicle. The light axis can be lowered with the operation of the switch.

The larger the number designated on the switch, the lower the axis.

When traveling with no heavy load or on a flat road, select position 0.

⚠ WARNING

Xenon headlights are extremely bright compared to conventional headlights. If the xenon headlights hit the rearview mirror of the vehicle ahead or the windshield of oncoming vehicle, the driver of these vehicles may have difficulty driving because of the brightness. Use the headlight aiming control switch to lower the light axis. See "Xenon headlights" earlier in this section for additional information.

DAYTIME RUNNING LIGHT SYSTEM (CANADA ONLY)

The daytime running lights automatically illuminate when the engine is started with parking brake released. The daytime running lights operate with the headlight switch in the OFF position or in the ≡D◁≡ position.

The daytime running lights may come on after turning the switch to the OFF position and

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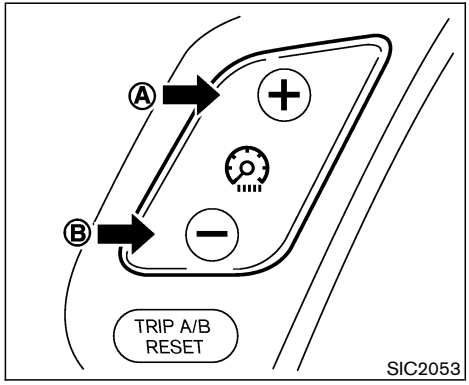
immediately turning it to the ON position. This is not a malfunction.

The daytime running lights will be turned off when the headlight switch is turned to the AUTO (only when the headlights are lit) or position or when the fog light is turned on.

The daytime running lights will remain on until the ignition switch is turned to the ACC or OFF position.

WARNING

When the daytime running light system is active, tail lights on your vehicle are not on. It is necessary at dusk to turn on your headlights. Failure to do so could cause an accident injuring yourself and others.



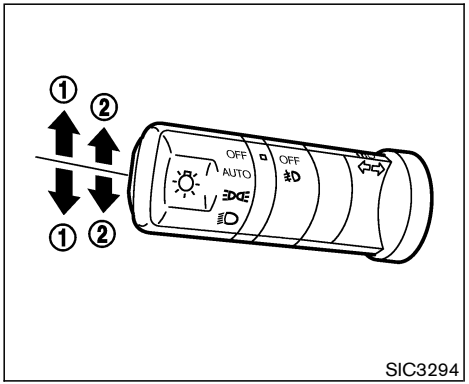
INSTRUMENT BRIGHTNESS CONTROL

The instrument brightness control operates when the light switch is in the or position and the ignition switch is in the ON position.

Pushing the control switch (A) once will change the brightness to the night mode.

Pushing the control switch (B) once will change the brightness to the day mode.

To adjust the brightness of instrument panel lights, push the control switches. Pushing the upper switch (A) will brighten the lights. The lower switch (B) dims the lights. Repeatedly pushing the lower switch will turn the lights off.



SIC3294

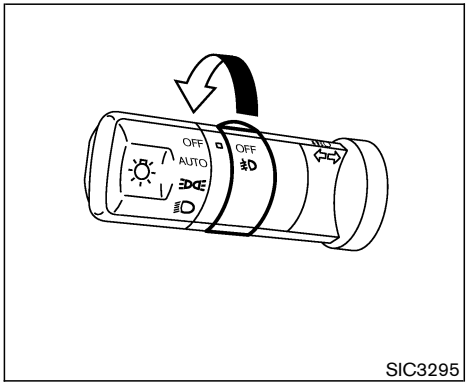
TURN SIGNAL SWITCH

① Turn signal

Move the lever up or down to signal the turning direction. When the turn is completed, the turn signals cancel automatically.

② Lane change signal

To indicate a lane change, move the lever up or down to the point where lights begin flashing.



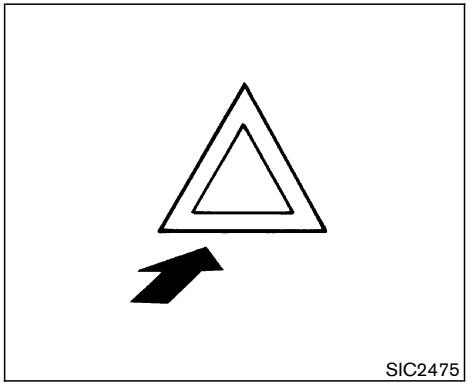
SIC3295

FOG LIGHT SWITCH (if so equipped)

To turn the fog lights on, turn the headlight switch to the position, then turn the switch to the position. To turn them off, turn the switch to the OFF position.

The headlights must be on for the fog lights to operate (except for the daytime running light).

HAZARD WARNING FLASHER SWITCH


SIC2475

Push the switch (located on the right side of the meter panel) on to warn other drivers when you must stop or park under emergency conditions. All turn signal lights will flash.

Some state laws may prohibit the use of the hazard warning flasher switch while driving.

⚠ WARNING

- **If stopping for an emergency, be sure to move the vehicle well off the road.**

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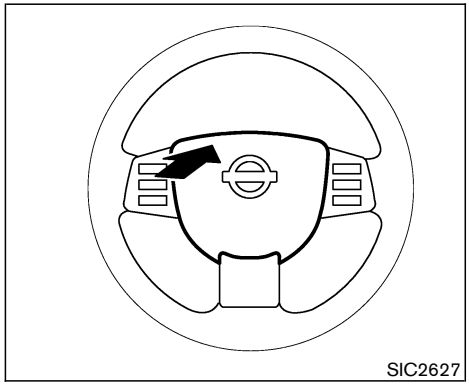
- **Do not use the hazard warning flashers while moving on the highway unless unusual circumstances force you to drive so slowly that your vehicle might become a hazard to other traffic.**
- **Turn signals do not work when the hazard warning flasher lights are on.**

The flasher will operate with the ignition switch in any position.

HORN

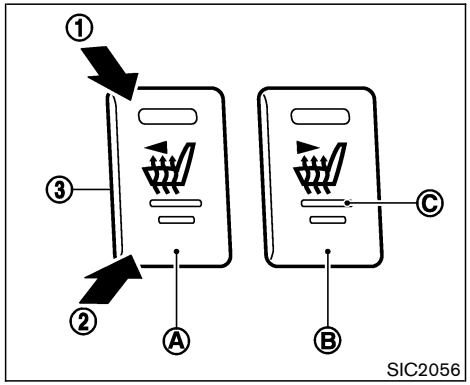

SIC2627

To sound the horn, push the center pad upper area of the steering wheel.

WARNING

Do not disassemble the horn. Doing so could affect proper operation of the supplemental front air bag system. Tampering with the supplemental front air bag system may result in serious personal injury.

HEATED SEATS (if so equipped)



SIC2056

The front seats are warmed by built-in heaters. The switches located on the center console can be operated independently (driver side seat (A) and front passenger side seat (B)) of each other.

1. Start the engine.
2. Select heat range.
   (1) For high heat, push the ▭ (High) side of the switch.
   (2) For low heat, push the ▭ (Low) side of the switch.
   (3) For no heat, the switch has a center OFF position between low and high.

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The indicator light in the switch Ⓒ will illuminate when low or high is selected.

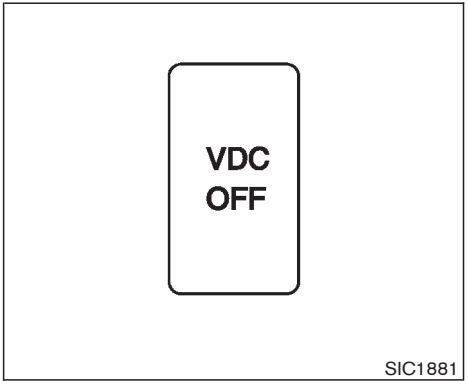
The heater is controlled by a thermostat, automatically turning the heater on and off. The indicator light will remain on as long as the switch is on.

3. When the vehicle's interior is warmed, or before you leave the vehicle, be sure to turn the switch to the off position (center) ③.

⚠ CAUTION

- **The battery could run down if the seat heater is operated while the engine is not running.**
- **Do not use the seat heater for extended periods or when no one is using the seat.**
- **Do not put anything on the seat which insulates heat, such as a blanket, cushion, seat cover, etc. Otherwise, the seat may become overheated.**
- **Do not place anything hard or heavy on the seat or pierce it with a pin or similar object. This may result in damage to the heater.**
- **Any liquid spilled on the heated seat should be removed immediately with a dry cloth.**
- **When cleaning the seat, never use gasoline, benzine, thinner, or any similar materials.**
- **If any abnormalities are found or the heated seat does not operate, turn the switch off and have the system checked by a NISSAN dealer.**

VEHICLE DYNAMIC CONTROL (VDC) OFF SWITCH (if so equipped)



The vehicle should be driven with the Vehicle Dynamic Control (VDC) system ON for most driving conditions.

If the vehicle is stuck in mud or snow, the VDC system reduces the engine output to reduce wheel spin. The engine speed will be reduced even if the accelerator is depressed to the floor. If maximum engine power is needed to free a stuck vehicle, turn the VDC system off.

To turn off the Vehicle Dynamic Control (VDC) system, push the VDC OFF switch. The VDC OFF indicator light will come on.

Push the VDC OFF switch again or restart the engine to turn ON the system. See "Vehicle

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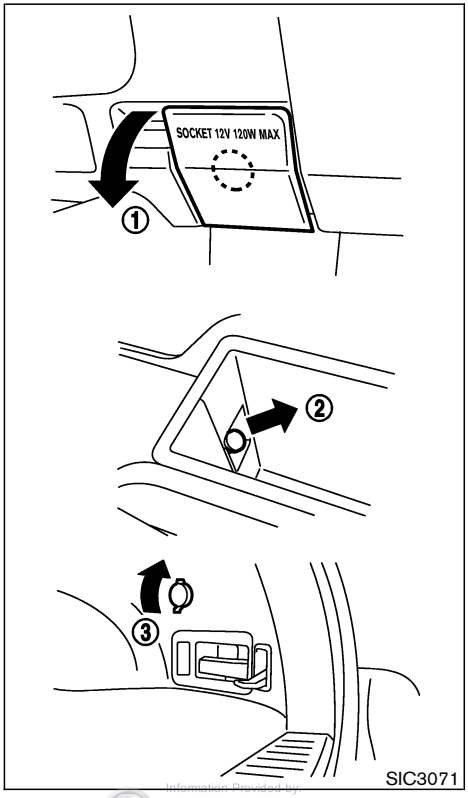
POWER OUTLET

Dynamic Control (VDC) system” in the “5. Starting and driving” section.



The power outlet is for powering electrical accessories such as cellular telephones.

1. Located beside the glove box (if so equipped):
   Pull down the cover to open.
2. Located inside the console box:
   Pull to remove the cover to open.
3. Located the side of the luggage room (if so equipped):
   Pull up the cover to open.

CAUTION

- **The outlet and plug may be hot during or immediately after use.**
- **This power outlet is not designed for use with a cigarette lighter unit.**
- **Do not use with accessories that exceed a 12 volt, 120W (10A) power draw. Do not use double adapters or more than one electrical accessory.**
- **Use only one power outlet at a time.**
- **Use power outlet with the engine running to avoid discharging the ve-**

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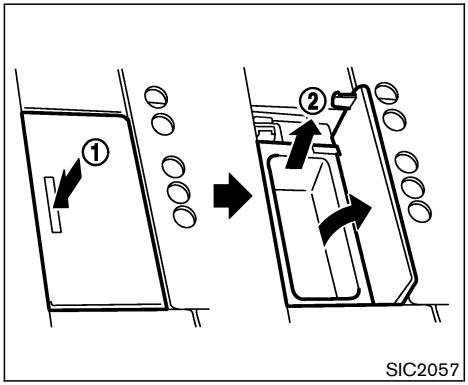
hicle battery.

- Avoid using power outlets when the air conditioner, headlights or rear window defroster is on.
- Before inserting or disconnecting a plug, be sure to turn off the power switch of electrical accessory being used or the ACC power of the vehicle.
- Push the plug in as far as it will go. If good contact is not made, the plug may overheat or the internal temperature fuse may open.
- When not in use, be sure to close the cap/cover. Do not allow water to contact the outlet.



SIC2057

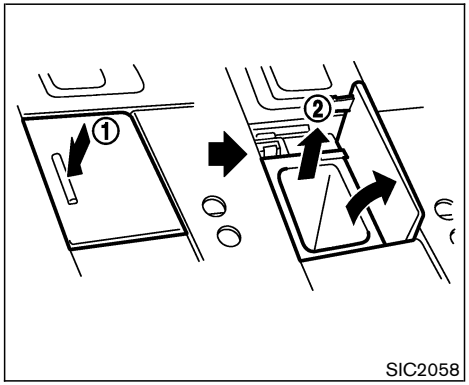
COIN BOX

To open, push the coin box lid (1) as illustrated.

The inner tray can be removed (2) as illustrated.

Do not place valuable items in the box.

Do not use the coin box as an ashtray.



SIC2058

CELLULAR PHONE HOLDER

WARNING

- **A cellular telephone should not be used while driving so full attention may be given to vehicle operation. Some jurisdictions prohibit the use of cellular telephones while driving.**
- **If a conversation in a moving vehicle requires you to take notes, pull off the road to a safe location and stop**

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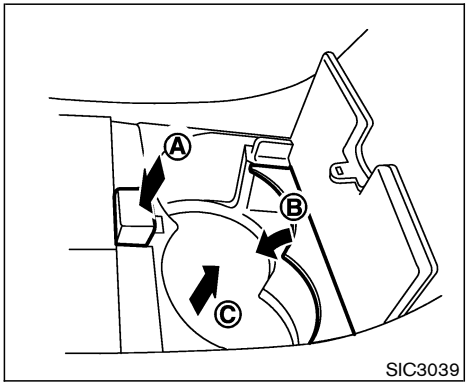
your vehicle before doing so.

To open, push the cellular phone holder lid (1) as illustrated.

The inner tray can be removed (2) as illustrated.

Do not place valuable items in the holder.

Do not use the cellular phone holder as an ashtray.



CUP HOLDERS

CAUTION

- **Avoid abrupt starting and braking when the cup holder is being used to prevent spilling the drink. If the liquid is hot, it can scald you or your passenger.**
- **Use only soft cups in the cup holder. Hard objects can injure you in an accident.**

Front

Push the cup holder opener button (A) to open.

The flap (B) will be folded down when inserting a bigger container.

Pull up the inner tray (C) to remove for cleaning.

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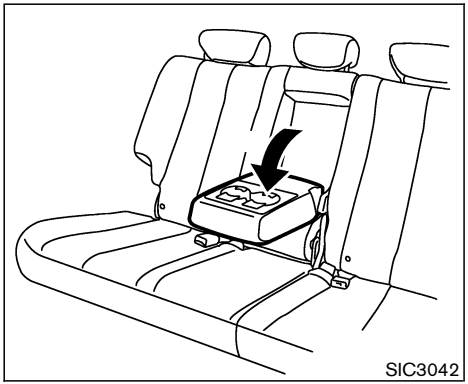
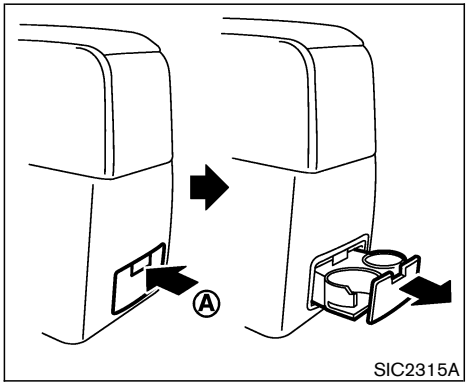


Type A

Rear

Type A:

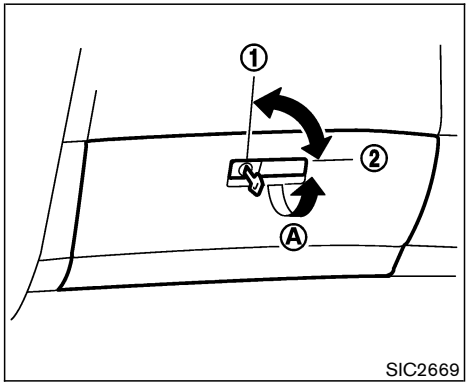
Pull the armrest forward until it is horizontal.



Type B

Type B:

Push (A) to open the cup holder.



GLOVE BOX

WARNING

Keep glove box lid closed while driving to help prevent injury in an accident or a sudden stop.

To open the glove box, pull the handle (A).

To close, push the lid in until the lock latches.

To lock (2) or unlock (1) the glove box, use the master key, mechanical key (Intelligent Key system) or wallet key.

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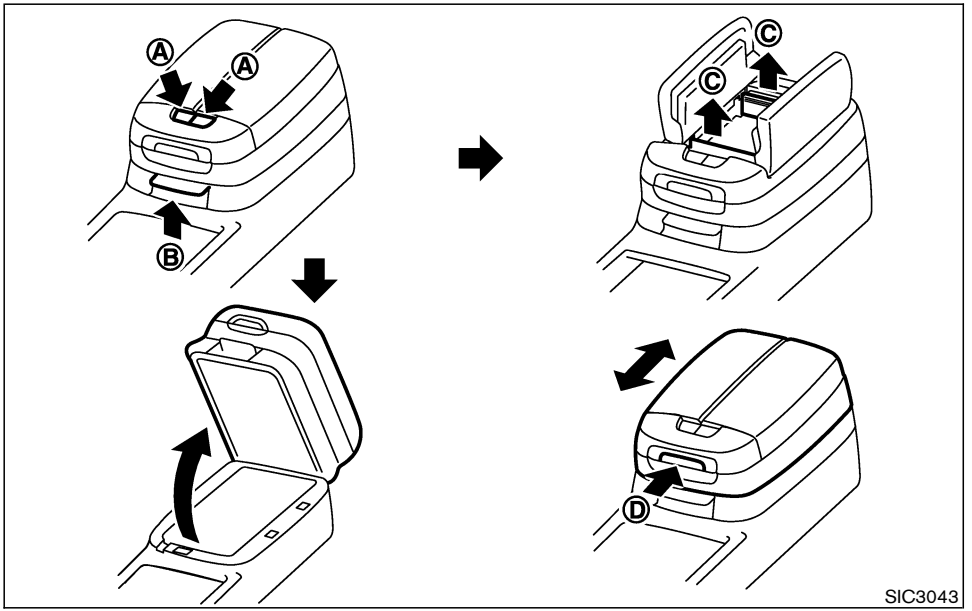

Type A

CONSOLE BOX

Type A

Push the button Ⓐ to open the upper console box lid.

The partition Ⓒ can be removed.

Pull up the button Ⓑ to open the lower console box lid.

Push the button Ⓓ and adjust the armrest to the desired position.

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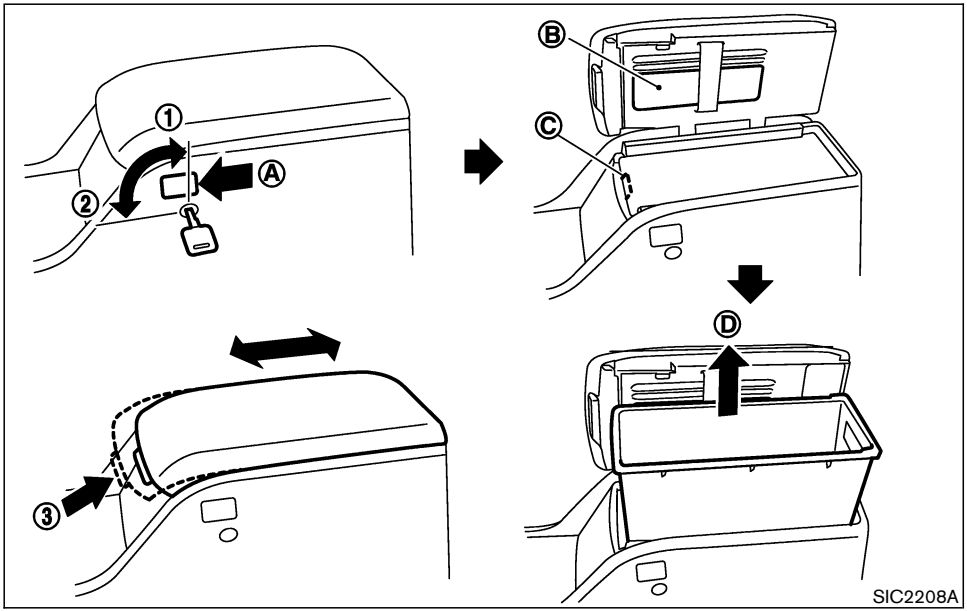

Type B

Type B

Push the button (A) to open the console box lid.

The inside of the console box lid is designed to be used as a holder (B) such as pen, etc. There is a power outlet (C) inside the console box.

Remove the inside tray (D) to store a large object.

To lock the console box, turn the key to the (1) position.

To unlock the console box, turn the key to the (2) position.

Push the button (3) and adjust the armrest to the desired position.

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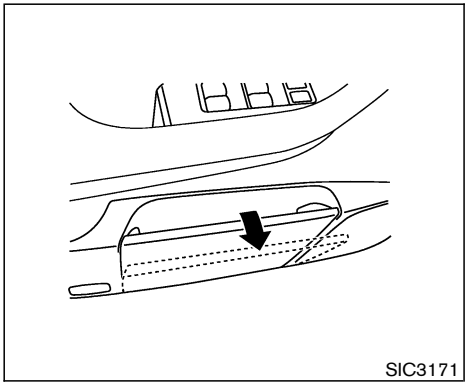
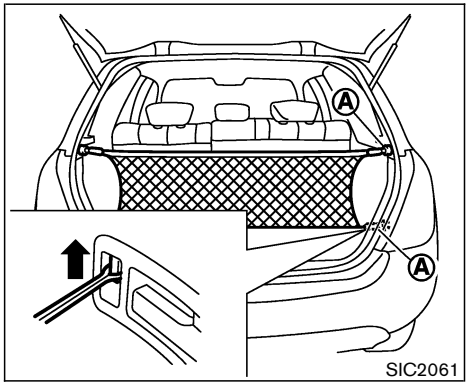

SIC3171

DOOR POCKETS

The door pockets are located on the driver's and front passenger's doors. The door pocket opening can be expanded to make it easier to store and retrieve items. Items stored in the door pocket should not be larger than the door pocket opening in its closed position. Make sure that the item does not hold the door pocket in the open position.

CAUTION

Do not store items in the door pocket that are larger than the opening in the closed position. Do not force the door pocket closed if an item holds the door pocket in the open position. Doing so may damage the door pocket.



SIC2061

CARGO NET (if so equipped)

The cargo net helps keep packages in the cargo area from moving around while your vehicle is driven.

To install the cargo net, attach the hooks to the retainers (A) on both sides.

To remove the cargo net, detach the hooks from the cargo net retainers.

For more retainers, refer to "Vehicle loading information" in the "9. Technical and consumer information" section.

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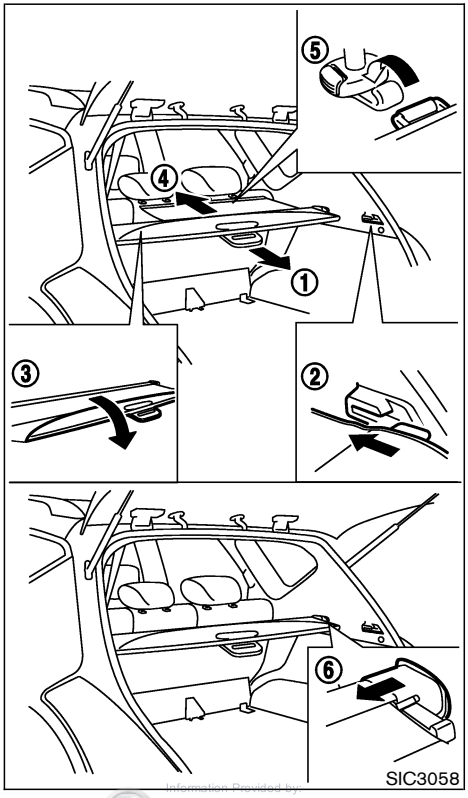
WARNING

- **Properly secure all cargo to help prevent it from sliding or shifting.**
- **Be sure to secure all four hooks into the retainers. The cargo restrained in the net must not exceed 30 lbs (13.6 kg) or the net may not stay secured.**



TONNEAU COVER (if so equipped)

The tonneau cover keeps the luggage compartment contents hidden from the outside.

To use the tonneau cover, pull it out (1), hang both sides on the hooks (2) and open the flap (3).

To use the sub cover, pull out (4) and hang both sides on the hooks behind the rear seat head restraint (5).

To stow the tonneau cover and the sub cover, remove them from the hooks and hold until they are retracted.

To remove the tonneau cover, stow the cover and pull the holder to the opposite side (6).

WARNING

- **Never put anything on the tonneau cover, no matter how small. Any object on it could cause an injury in an accident or sudden stop.**
- **Close the tonneau and sub covers when folding the rear seat.**
- **Do not leave the tonneau cover in the vehicle with it disengaged from the**

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holder.

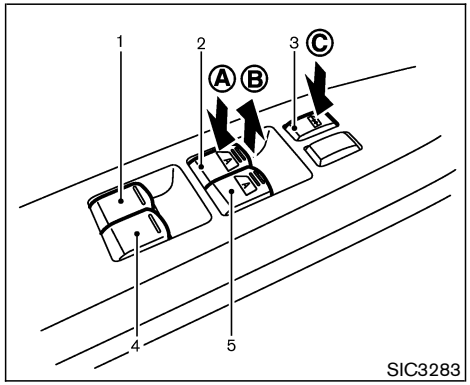
- **Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **The child restraint top tether strap may be damaged by contact with the tonneau cover or items in the cargo area. Remove the tonneau cover from the vehicle or secure it in the cargo area. Also secure any items in the cargo area. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.**

POWER WINDOWS

WARNING

- **Make sure that all passengers have their hands, etc. inside the vehicle while it is in motion and before closing the windows. Use the window lock switch to prevent unexpected use of the power windows.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls and become trapped in a window. Unattended children could become involved in serious accidents.**

The power windows operate when the ignition switch is in the ON position and for about 45 seconds, after the ignition switch is turned to the ACC or OFF position. If the driver's door or the front passenger's door is opened during this period of about 45 seconds, power to the windows is canceled.



Main power window switch (driver's side)

1. Rear left passenger's side window
2. Driver's side window
3. Window lock button
4. Rear right passenger's side window
5. Front passenger's side window

To open or close the window, push down (A) or pull up (B) the switch and hold it. The main switch (driver side switches) will open or close all the windows.

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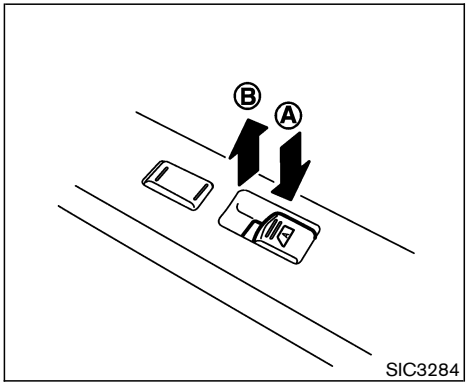
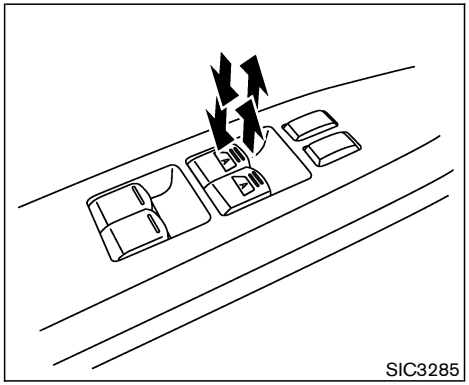
Locking passenger's windows

When the lock button Ⓒ is pushed in, only the driver side window can be opened or closed. Push it in again to cancel.



Passenger side power window switch

The passenger side switch will open or close only the corresponding window. To open or close the window, hold the switch down Ⓐ or up Ⓑ.



Automatic operation

To fully open or close the driver's or front passenger's side window, completely push down or pull up the switch and release it; it need not be held. The window will automatically open or close all the way. To stop the window, just push or lift the switch on the opposite side.

Auto reverse function (if so equipped)

If the control unit detects something caught in a front window as it moves up, the window will be immediately lowered.

The auto reverse function can be activated when a front window is closed by automatic operation

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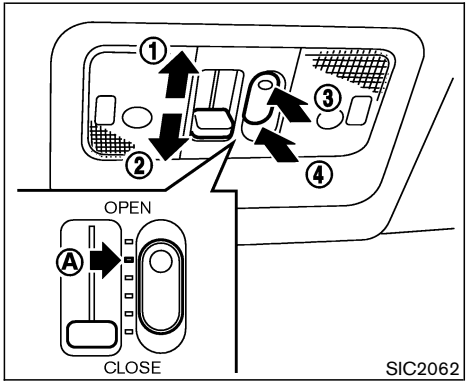
when the ignition switch is in the ON position or for about 45 seconds after the ignition switch is turned to the ACC, OFF or LOCK position. The doors remain closed.

Depending on the environment or driving conditions, the auto reverse function may be activated if an impact or load similar to something being caught in the window occurs.

WARNING

There are some small distances immediately before the closed position which cannot be detected. Make sure that all passengers have their hands, etc., inside the vehicle before closing the window.



AUTOMATIC SUNROOF

The sunroof will only operate when the ignition switch is in the ON position.

The automatic sunroof is operational for about 45 seconds, even if the ignition switch is turned to the ACC, OFF or LOCK position. If the driver's door or the front passenger's door is opened during this period of about 45 seconds, power to the sunroof is canceled.

Sliding the sunroof

To open the roof, slide the switch to the side (1). When the roof is tilted up, it will automatically tilt down and then open.

To close the roof, slide the switch to the side (2).

Sliding position of lid can be chosen according to sliding amount of switch.

To fully open or close the roof, completely move the switch to the (1) or (2) side.

Tilting the sunroof

To tilt up, push the side (3) of the tilt switch. When the roof is open, it will automatically close and then tilt up. To tilt down the sunroof, push the side (4). When the roof is open, it will automatically close.

Restarting the sunroof sliding switch

The sliding switch will become inoperable after the battery terminal is disconnected, the electrical supply interrupted and/or some abnormality detected. Use the following re-set procedure to return sunroof operation to normal.

1. Keep pushing the tilting switch toward tilt UP.
2. After the lid has tilted up gradually, it will automatically close all the way, then return to normal operation.

Auto reverse function (When closing the sunroof)

If the control unit detects something caught in

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the sunroof as it moves to the front or tilts down, the sunroof will immediately open backward or tilt up.

The auto reverse function can be activated when the sunroof is closed by automatic operation when the ignition switch is in the ON position or for about 45 seconds after the ignition switch is turned to the ACC, OFF or LOCK position.

Depending on the environment or driving conditions, the auto reverse function may be activated if an impact or load similar to something being caught in the sunroof occurs.

If the auto reverse function malfunctions and repeats opening or tilting up the sunroof, keep pushing toward the close position or keep pushing the tilt down switch within 5 seconds after it happens, then the sunroof will fully close gradually. In this case, make sure nothing is caught in the sunroof.

WARNING

There are some small distances immediately before the closed position which cannot be detected. Make sure that all passengers have their hands, etc., inside the vehicle before closing the sunroof.

Sun shade

Open or close the sun shade by sliding it backward or forward.

The shade will open automatically when the sunroof is opened. However, it must be closed manually.

Comfortable position (Ⓐ)

Depending on the driving speed and air recirculating conditions, wind noise may occur when the sunroof is fully opened. Closing the sunroof one step toward the front position Ⓐ from full open will decrease the wind noise.

WARNING

- **In an accident you could be thrown from the vehicle through an open sunroof. Always use seat belts and child restraints.**
- **Do not allow anyone to stand up or extend any portion of their body out of the sunroof opening while the vehicle is in motion or while the sunroof is closing.**

CAUTION

- **Remove water drops, snow, ice or sand from the sunroof before opening.**
- **Do not place any heavy object on the sunroof or surrounding area.**

If the sunroof does not close

Have a NISSAN dealer check and repair the sunroof.

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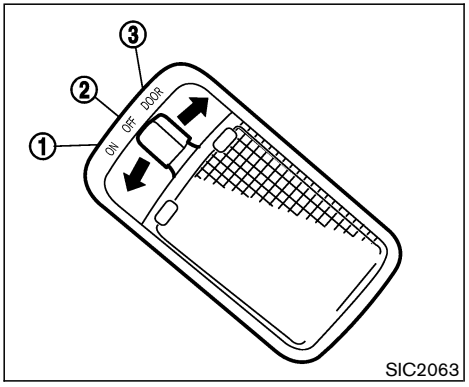


CEILING LIGHT

The ceiling light has a three-position switch.

When the switch is in the ON position (1), the light will illuminate.

When the switch is in the OFF position (2), the light will turn off.

When the switch is in the DOOR position (3), the light will illuminate when a door is opened.

The light will stay on for about 30 seconds when:

- The doors are unlocked by the remote keyless entry system, a key, power door lock switch or using the Intelligent Key system while all doors are closed.
- The driver's door is opened and then closed while the key is removed from the ignition switch or the ignition switch is turned to the LOCK position (Intelligent Key system).
- The key is removed from the ignition switch or the ignition switch is turned to the LOCK position (Intelligent Key system) while all doors are closed.

The ceiling light will turn off while the 30 second timer is activated, when:

- The driver's door is locked by the remote keyless entry system, a key or the power door lock switch.
- The ignition switch is turned ON.

When the ceiling light switch or map light switch or rear personal light switch is in the ON position, the ceiling, map, rear and vanity mirror lights will automatically turn off 30 minutes after the ignition switch has been turned to the ACC or OFF position. To turn on the light again, turn the ignition switch to the ON position.

After the above procedure, the ceiling, map, rear personal and vanity mirror lights will automatically turn off 30 minutes after the latest operation of the following with the ignition switch in the ACC or OFF position:

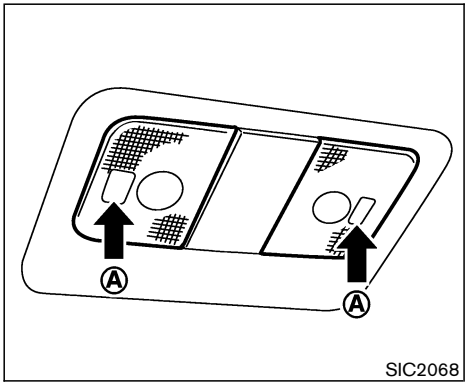
- Opening or closing any door
- Locking or unlocking with the remote keyless entry system, a key, the lock-unlock switch or the ignition switch is turned to the LOCK position (Intelligent Key system).
- Inserting or removing a key from the ignition switch

These lights will turn on again when any of the above operations is performed after the lights have turned off automatically. (The lights will turn off 30 minutes after the latest operation of the above as well.)

CAUTION

- **Turn off the ceiling, map, rear and vanity mirror lights when you leave the vehicle.**
- **Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.**

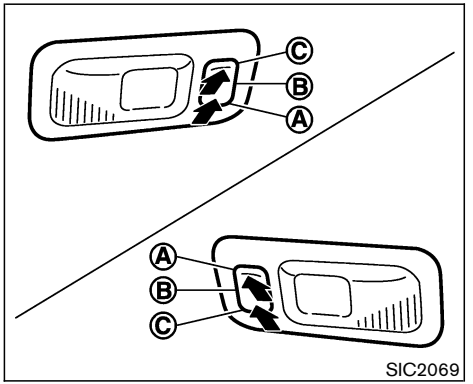
Information Provided by: DEALER E-PROCESS



Front

MAP LIGHT

To turn on the light, push the plastic surface Ⓐ of the light. Push it again to turn off the light.



Rear

REAR PERSONAL LIGHT

The rear personal light has a three-position switch. (Ⓐ: DOOR, Ⓑ: OFF, Ⓒ: ON)

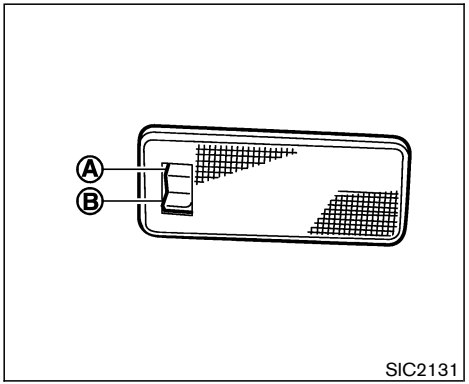
When the switch is in the DOOR position Ⓐ, the light will illuminate when a door is opened.

When the ceiling light or the map light switch or rear personal light switch is in the ON position Ⓒ, the ceiling, map, rear personal and vanity mirror lights will automatically turn off 30 minutes after the ignition switch has been turned to the OFF position Ⓑ. To turn on the light again, turn the ignition switch to the ON position.

CAUTION

- **Turn off the ceiling, map, rear and vanity mirror lights when you leave the vehicle.**
- **Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.**

Information Provided by:
DEALER E-PROCESS

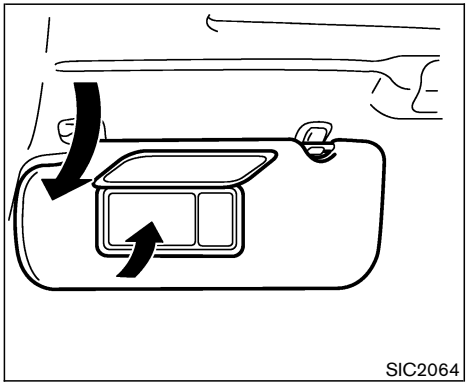


LUGGAGE LIGHT

When the switch is in the ON position (A), the light illuminates while the lift gate is opened. When the lift gate is closed, the light will turn off.

When the switch is in the OFF position (B), the light will turn off.

VANITY MIRROR LIGHT (if so equipped)



The light on the vanity mirror will turn on when the cover on the vanity mirror is opened.

When the ceiling light or the map light switch or rear personal light switch is in the ON position, the ceiling, map, rear personal and vanity mirror lights will automatically turn off 30 minutes after the ignition switch has been turned to the OFF position. To turn on the light again, turn the ignition switch to the ON position.

HomeLink® UNIVERSAL TRANSCEIVER (if so equipped)

The HomeLink® Universal Transceiver provides a convenient way to consolidate the functions of up to three individual hand-held transmitters into one built-in device.

HomeLink® Universal Transceiver:

- Will operate most Radio Frequency (RF) devices such as garage doors, gates, home and office lighting, entry door locks and security systems.
- Is powered by your vehicle's battery. No separate batteries are required. If the vehicle's battery is discharged or is disconnected, HomeLink® will retain all programming.

Once the HomeLink® Universal Transceiver is programmed, retain the original transmitter for future programming procedures (Example: new vehicle purchases). Upon sale of the vehicle, the programmed HomeLink® Universal Transceiver buttons should be erased for security purposes. For additional information, refer to "Programming HomeLink®" later in this section.

Information Provided by:
DEALER E-PROCESS

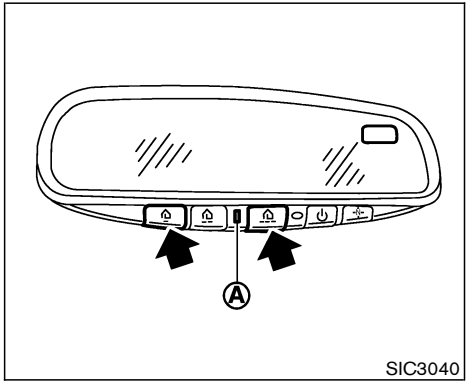
WARNING

- **Do not use the HomeLink® Universal Transceiver with any garage door opener that lacks safety stop and reverse features as required by federal safety standards. (These standards became effective for opener models manufactured after April 1, 1982). A garage door opener which cannot detect an object in the path of a closing garage door and then automatically stop and reverse, does not meet current federal safety standards. Using a garage door opener without these features increases the risk of serious injury or death.**
- **During programming procedure, your garage door or security gate may open or close. Make sure that people and objects are clear of the garage door, gate, etc. that you are programming.**
- **Your vehicle's engine should be turned off while programming the**

HomeLink® Universal Transceiver.

PROGRAMMING HomeLink®

To program your HomeLink® Transceiver to operate a garage door, gate, or entry door opener, home or office lighting, you need to be at the same location as the device. Note: Garage door openers (manufactured after 1996) have "rolling code protection". To program a garage door opener equipped with "rolling code protection"; you will need to use a ladder to get up to the garage door opener motor to be able to access the "smart or learn" program button.



1. To begin, push and hold the 2 outer HomeLink® buttons (to clear the memory) until the indicator light (A) blinks (after 20 seconds). Release both buttons.
2. Position the end of the hand-held transmitter 1-3 inches away from the HomeLink® surface.

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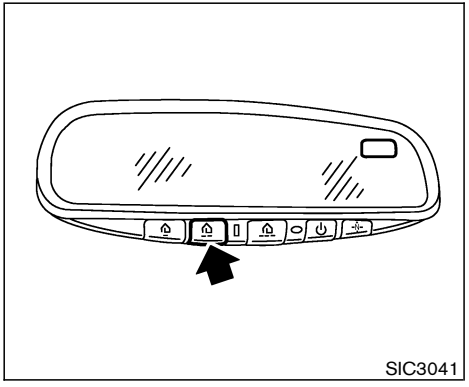
SIC3041

3. Using both hands, simultaneously push and hold both the HomeLink® button you want to program and the hand-held transmitter button.
   DO NOT release the buttons until step 4 has been completed.
4. Hold down both buttons until the indicator light on the HomeLink® flashes, changing from a “slow blink” to a “rapid blink”. This could take up to 90 seconds. When the indicator light blinks rapidly, both buttons may be released. The rapidly flashing light indicates successful programming. To activate the garage door or other programmed device, push and hold the programmed HomeLink® button - releasing when the device begins to activate.
5. If the indicator light on the HomeLink® blinks rapidly for two seconds and then turns solid, HomeLink® has picked up a “rolling code” garage door opener signal. You will need to proceed with the next steps to train the HomeLink® to complete the programming which may require a ladder and another person for convenience.
6. Push and release the training button located on the garage door opener’s motor to activate the “training mode”. This button is usually located near the antenna wire that hangs down from the motor. If the wire originates from under a light lens, you will need to remove the lens to access the training button.

NOTE:

Once you have pushed and released the training button on the garage door opener’s motor and the “training light” is lit, you have 30 seconds in which to perform step 7. Use the help of a second person for convenience to assist when performing this step.

7. Quickly within 30 seconds of pushing and releasing the garage door opener training button, firmly push and release the HomeLink® button you have just programmed. Push and release the HomeLink® button up to three times to complete the training.
8. Your HomeLink® button should now be programmed. (To program the remaining HomeLink® buttons for additional door or gate openers, follow steps 2 through 8 only.)

NOTE:

Do not repeat step one unless you want to “clear” all previously programmed HomeLink® buttons).

If you have any questions or are having difficulty programming your HomeLink® buttons, please refer to the HomeLink® web site at: www.homelink.com or call 1-800-355-3515.

PROGRAMMING HomeLink® FOR CANADIAN CUSTOMERS

Prior to 1992, D.O.C. regulations required hand-held transmitters to stop transmitting after 2 seconds. To program your hand-held transmitter to HomeLink®, continue to push and hold the HomeLink® button (note steps 2 through 4 under “Programming HomeLink®”) while you push and re-push (“cycle”) your hand-held transmitter every 2 seconds until the indicator

light flashes rapidly (indicating successful programming).

NOTE:

If programming a garage door opener, etc., it is advised to unplug the device during the “cycling” process to prevent possible damage to the garage door opener components.

OPERATING THE HomeLink® UNIVERSAL TRANSCEIVER

The HomeLink® Universal Transceiver (once programmed) may now be used to activate the garage door, etc. To operate, simply push the appropriate programmed HomeLink® Universal Transceiver button. The red indicator light will illuminate while the signal is being transmitted.

PROGRAMMING TROUBLE DIAGNOSIS

If the HomeLink® does not quickly learn the hand-held transmitter information:

- replace the hand-held transmitter batteries with new batteries.
- position the hand-held transmitter with its battery area facing away from the HomeLink® surface.
- push and hold both the HomeLink® and hand-held transmitter buttons without interruption.
- position the hand-held transmitter 2 to 5 inches (50 to 127 mm) away from the HomeLink® surface. Hold the transmitter in that position for up to 15 seconds. If HomeLink® is not programmed within that time, try holding the transmitter in another position - keeping the indicator light in view at all times.

If you continue to have programming difficulties, please contact the NISSAN Consumer Affairs Department. The phone numbers are located in the Foreword of this Owner’s Manual.

CLEARING THE PROGRAMMED INFORMATION

Individual buttons cannot be cleared, however to clear all programming, push and hold the two outside buttons and release when the indicator light begins to flash (approximately 20 seconds).

REPROGRAMMING A SINGLE HomeLink® BUTTON

To reprogram a HomeLink® Universal Transceiver button, complete the following.

1. Push and hold the desired HomeLink® button. **Do not** release the button until step 4 has been completed.
2. When the indicator light begins to flash slowly (after 20 seconds), position the hand-held transmitter 2 to 5 inches (50 to 127 mm) away from the HomeLink® surface.
3. Push and hold the hand-held transmitter button.
4. The HomeLink® indicator light will flash, first slowly and then rapidly. When the indicator light begins to flash rapidly, release both buttons.

The HomeLink® Universal Transceiver button has now been reprogrammed. The new device can be activated by pushing the HomeLink® button that was just programmed. This procedure will not affect any other programmed HomeLink® buttons.

IF YOUR VEHICLE IS STOLEN

If your vehicle is stolen, you should change the codes of any non-rolling code device that has been programmed into HomeLink®. Consult the Owner’s Manual of each device or call the manufacturer or dealer of those devices for additional information.

When your vehicle is recovered, you will need to reprogram the HomeLink® Univer-

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sal Transceiver with your new transmitter information.

FCC Notice:

This device complies with FCC rules part 15. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) This device must accept any interference that may be received, including interference that may cause undesired operation.

The transmitter has been tested and complies with FCC and DOC/MDC rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

DOC: ISTC 1763K1313

FCC I.D.: CB2V67690

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3 Pre-driving checks and adjustments

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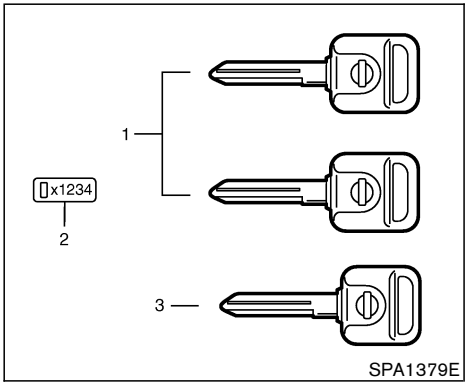
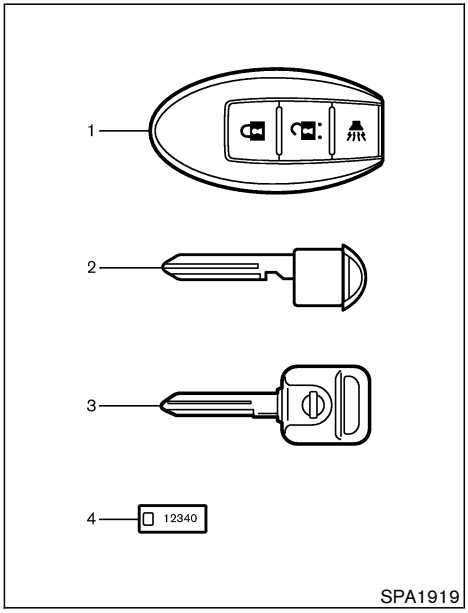


1. Master keys (with built-in transponder chip)
2. Key number plate
3. Valet key (with built-in transponder chip)



1. Intelligent Key 2 sets*
2. Mechanical key (metal key) 2 sets*
3. Valet key (with built-in transponder chip)
4. Key number plate

*: Refer to “Intelligent Key system” later in this section.

A key number plate is supplied with your keys. Record the key number and keep it in a safe place (such as your wallet), not in the vehicle. If you lose your keys, see a NISSAN dealer for duplicates by using the key number.

A key number is necessary when you have lost all keys and do not have one to duplicate from. If you still have a key, a NISSAN dealer can duplicate it.

NISSAN VEHICLE IMMOBILIZER SYSTEM (NVIS) KEYS

You can only drive your vehicle using the master or valet keys which are registered to the NISSAN Vehicle Immobilizer System components in your vehicle. These keys have a transponder chip in the key head.

The master key can be used for all the locks.

The valet key cannot be used for glove box and console box lock.

To protect belongings when you leave a key with someone, give them the valet key only.

Never leave these keys in the vehicle.

NISSAN Vehicle Immobilizer System KEY — Master and Valet keys:

If you still have a key, the key number is not necessary when you need extra NISSAN Vehicle

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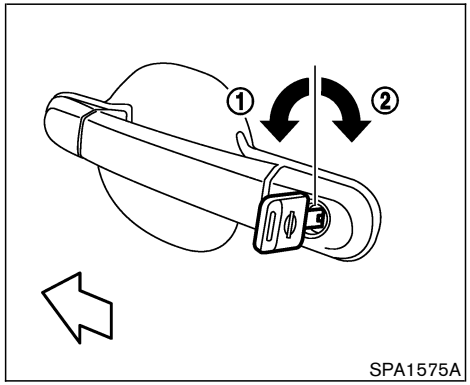
Immobilizer System keys. A NISSAN dealer can duplicate it. As many as 5 NVIS keys can be used with one vehicle. You should bring all NVIS keys that you have to a NISSAN dealer for registration. This is because the registration process will erase the memory of all key codes previously registered into the NISSAN Vehicle Immobilizer System. After the registration process, these components will only recognize keys coded into the NISSAN Vehicle Immobilizer System (NVIS) during registration. Any key that is not given to your dealer at the time of registration will no longer be able to start your vehicle.

Do not allow the immobilizer system key, which contains an electrical transponder, to come into contact with salt water. This could affect system function.

WARNING

- **Always have the doors locked while driving. Along with the use of seat belts, this provides greater safety in the event of an accident by helping to prevent persons from being thrown from the vehicle. This also helps keep children and others from unintentionally opening the doors, and will help keep out intruders.**
- **Before opening any door, always look for and avoid oncoming traffic.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**



LOCKING WITH KEY

Power

The power door lock system allows you to lock or unlock all doors simultaneously.

- Turning the driver's door key to the front of the vehicle (1) will lock all doors (including the lift gate) and fuel-filler door.
- Turning the driver's door key one time to the rear of the vehicle (2) will unlock the driver's door. From that position, returning the key to neutral (where the key can only be removed and inserted) and turning it to the rear again within 5 seconds will unlock all doors and

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fuel-filler door. Unlock simulation can be changed. See the “4. Display screen, heater, air conditioner and audio system” section.

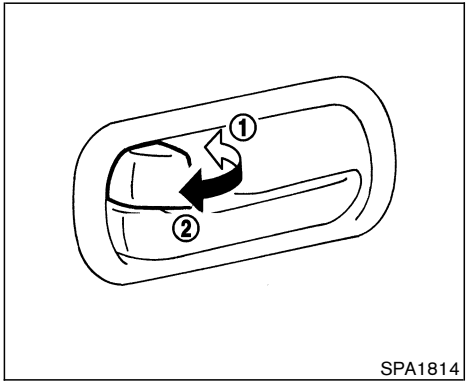
Opening and closing front windows

Turn the driver’s door key to the unlock position and hold for about 1 second, the front windows will begin to lower.

To stop opening, turn the key to the neutral position.

To close the front windows with the door key cylinder, turn the key to the lock position and hold for about 1 second.

To stop closing, turn the key to the neutral position.



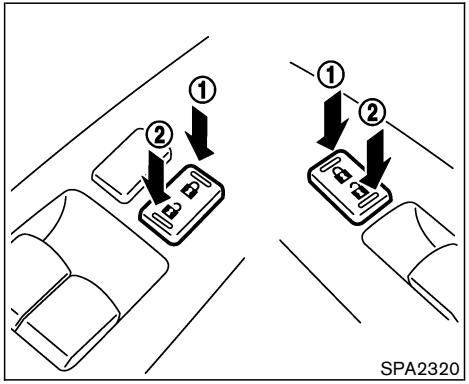
SPA1814

LOCKING WITH INSIDE LOCK KNOB

To individually lock the doors, move the inside lock knob to the LOCK position (1), then close the door.

To unlock, move the inside lock knob up to the UNLOCK position (2).

When locking the door without a key, be sure not to leave the key inside the vehicle.



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LOCKING WITH POWER DOOR LOCK SWITCH

Operating the lock-unlock switch will lock or unlock all doors. (driver and front passenger sides)

To lock the doors, push the power door lock switch located on the driver’s or front passenger’s armrest to the lock position (1) with the driver’s or front passenger’s door open, then close the door.

When locking the door this way, be certain not to leave the key inside the vehicle.

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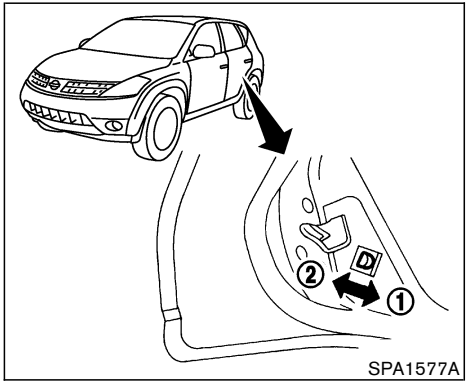
To unlock, push the power door lock switch to the unlock position (2).

Lockout protection

When the power door lock switch (driver or front passenger) is moved to the LOCK position with the key in the ignition and any door open, all doors will lock and unlock automatically. This helps to prevent the keys from being accidentally locked inside the vehicle.



CHILD SAFETY REAR DOOR LOCK

Child safety locking helps prevent doors from being opened accidentally, especially when small children are in the vehicle.

When the lever is in the LOCK position (1), the rear door can be opened only from the outside.

To disengage, move the lever to the FREE position (2).

REMOTE KEYLESS ENTRY SYSTEM (models without Intelligent Key system)

It is possible to lock/unlock all doors (including the lift gate) and fuel-filler door and activate the panic alarm by using the keyfob from outside the vehicle.

Before locking the doors, make sure the key is not left in the vehicle.

The keyfob can operate at a distance of approximately 33 ft (10 m) from the vehicle. (The effective distance depends upon the conditions around the vehicle.)

As many as five keyfobs can be used with one vehicle. For information concerning the purchase and use of additional keyfobs, contact a NISSAN dealer.

The keyfob will not function when:

- the battery is discharged,
- the distance between the vehicle and the keyfob is over 33 ft (10 m).

The panic alarm will not activate when the key is in the ignition switch.

CAUTION

The following conditions or occurrences will damage the keyfob.

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- **Do not allow the keyfob to become wet.**
- **Do not drop the keyfob.**
- **Do not strike the keyfob sharply against another object.**
- **Do not place the keyfob for an extended period in an area where temperatures exceed 140°F (60°C).**

If a keyfob is lost or stolen, NISSAN recommends erasing the ID code of that keyfob. This will prevent the keyfob from unauthorized use to unlock the vehicle. For information regarding the erasing procedure, please contact a NISSAN dealer.

HOW TO USE REMOTE KEYLESS ENTRY SYSTEM

Setting hazard indicator and horn mode

The factory setting of the remote keyless entry system is in hazard indicator and horn mode.

In hazard indicator and horn mode, when the LOCK button is pushed, the hazard indicator flashes twice and the horn chirps once. When the UNLOCK button is pushed, the hazard indicator flashes once.

If hazard indicator and horn mode is not necessary, you can switch to hazard indicator only mode by following the switching procedure.

In hazard indicator only mode, when the LOCK button is pushed, the hazard indicator flashes twice. When the UNLOCK button is pushed, neither the hazard indicator nor the horn operates.

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OPERATION GUIDE

MODE (Push “LOCK” and “UNLOCK” buttons for more than 2 seconds to switch)		Switching indicator	LOCK	UNLOCK
Hazard indicator and horn	HAZARD INDICATOR ONLY	HAZARD – 3 times	HAZARD – twice	No operation
Hazard indicator only	HAZARD INDICATOR AND HORN	HAZARD – once HORN – once	HAZARD – twice HORN – once	HAZARD – once

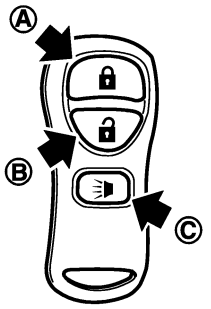
SPA1260

(Switching procedure)

Push the LOCK and UNLOCK buttons on the keyfob simultaneously for more than 2 seconds to switch from one mode to the other.

When pushing the buttons to set hazard indicator only mode, the hazard indicator flashes 3 times.

When pushing the buttons to set hazard indicator and horn mode, the hazard indicator flashes once and the horn chirps once.



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Locking doors and fuel-filler door

1. Remove the ignition key.*1
2. Close all the doors and fuel-filler door.*2
3. Push the LOCK button Ⓐ on the keyfob.
4. All the doors and fuel-filler door will lock.

All of the doors will lock when the LOCK button on the keyfob is pushed even though a door remains open and/or the ignition switch is in the ON position.

5. The hazard indicator flashes twice and the horn chirps once.

Information Provided by:
DEALER E-PROCESS

- When the LOCK button is pushed with all doors and fuel-filler door locked, the hazard indicator flashes twice and the horn chirps once as a reminder that the doors and fuel-filler door are already locked.

*1: Doors and fuel-filler door lock with the keyfob while a key is in the ignition switch. However, the panic alarm will not activate when the key is in the ignition switch.
*2: Doors and fuel-filler door lock with the keyfob while any door is open. However, hazard indicator and horn mode will not function.

Unlocking doors

1. Push the UNLOCK button (B) on the keyfob once.

- The driver's door and fuel-filler door unlocks
- The hazard indicator flashes once if all doors and fuel-filler door are completely closed with the ignition switch in any position except the ON position.
- The interior light turns on and the light timer activates for 30 seconds when the switch is in the DOOR position with the ignition switch in any position except the ON position.

2. Push the UNLOCK button (B) on the keyfob again within 5 seconds.

- All doors unlock
- The hazard indicator flashes once if all doors are completely closed.

If the following operation is not carried out within 1 minute after pushing the UNLOCK button, all doors will be locked automatically. (if so equipped)

- **any door is opened.**
- **the ignition switch is turned to the ON position**

The interior light can be turned off without waiting for 30 seconds by turning the ignition switch to the ON position or by locking the doors with the keyfob.

Opening the front window

Push the UNLOCK button (B) on the keyfob.

The driver's door will unlock.

Continue to push the UNLOCK button for 3 seconds. The driver's and front passenger's windows will be lowered.

Continue to push the UNLOCK button until windows are fully open.

To stop lowering the windows, release the UNLOCK button.

To start lowering the windows, push the UNLOCK button again for 3 more seconds.

This function will operate after the ignition switch is off and 45 seconds passed or either the front door is opened.

Using the panic alarm

If you are near your vehicle and feel threatened, you may activate the alarm to call attention as follows:

1. Push the PANIC (C) button on the keyfob for **longer than 0.5 seconds.**
2. The theft warning alarm and headlights will stay on for 30 seconds.
3. The panic alarm stops when:

- It has run for 30 seconds, or
- The LOCK or the UNLOCK button is pushed, or
- The panic button is pushed on the keyfob for more than 0.5 seconds.

Battery replacement

See the "8. Maintenance and do-it-yourself" section for battery replacement.

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INTELLIGENT KEY SYSTEM (if so equipped)

The Intelligent Key uses coded radio signals to communicate with the vehicle. When the Intelligent Key is near the vehicle, such as when standing near the vehicle with the Intelligent Key in your pocket or purse, it allows the vehicle to be locked or unlocked. And, when you are inside the vehicle while carrying the Intelligent Key with you, it allows the engine to be started without inserting the key to the ignition switch. It is also possible to use the remote keyless entry function.

⚠ CAUTION

- **Be sure to carry the Intelligent Key with you.**
- **Do not leave the vehicle with the Intelligent Key inside.**

- **The Intelligent Key may not function correctly depending on the environment or operating conditions. It could also malfunction if you do not use it correctly.**
- **The Intelligent Key transmits faint radio waves.**

  In the following situations, the Intelligent Key and remote keyless entry functions may not operate correctly, and you may have to use the metal key (mechanical key or valet key):

  - **when there are strong signals coming from a television tower, power station or broadcasting station.**
  - **when you have wireless equipment or a cellular phone with you.**
  - **when the Intelligent Key is in contact with or covered by a metallic material.**
  - **when radio wave-type remote control entry is used nearby.**
  - **when the Intelligent Key is placed near an electric appliance such as a personal computer.**
- **The Intelligent Key continually consumes battery power as the key receives a signal to communicate with the vehicle. Battery life of the Intelligent Key is about 2 years, although it varies depending on the operating conditions. When the battery of the Intelligent Key is low, the green blinking key warning light goes out about 30 seconds after the ignition switch is turned to ON. If the battery runs down, replace it with a new one.**
- **If the Intelligent Key receives strong signal over an extended period of time, the battery of the Intelligent Key could quickly run down. Do not place the Intelligent Key near an electric appliance such as a television set or personal computer.**
- **Because the ignition switch is electronically controlled, if the vehicle battery is completely discharged when the ignition switch is in the LOCK position, the steering lock cannot be released or the ignition switch cannot be turned (not by the mechanical key either).**
- **In case the vehicle battery is completely discharged, make sure to recharge the vehicle battery immediately.**

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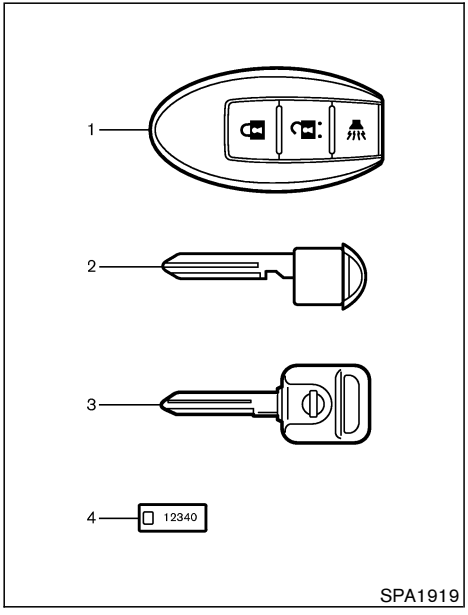

1. Intelligent Key 2 sets
2. Mechanical key (metal key)*1*2 2 sets
3. Valet key (with built-in transponder chip)*1
4. Key number plate

*1 The mechanical key and valet key are equipped with Nissan Vehicle Immobilizer System. Refer to “Nissan Vehicle Immobilizer System (NVIS) keys” earlier in this section.

*2 Mechanical key is included in the Intelligent Key. Refer to “Operation with the mechanical key” later in this section for how to remove the mechanical key from the Intelligent Key.

WARNING

- **The Intelligent Key transmits radio waves that can adversely affect medical electric equipment.**
- **If you have a pacemaker, you should contact the medical equipment manufacturer to ask if it will be affected by the Intelligent Key signal.**

Record the key number on the key number plate/metal tag and keep it in a safe place (such as your wallet), NOT IN THE VEHICLE. A key number plate is supplied with your key. Keep the plate in a safe place. NISSAN does not record key numbers so it is very important to keep track of your key number plate.

As many as 4 Intelligent Key can be used with one vehicle. For information concerning the purchase and use of an additional Intelligent Key, contact a NISSAN dealer.

The valet key cannot be used for the glove box and console box lock.

To protect belongings when you leave a key with someone, give them the valet key only.

CAUTION

Be sure to carry the Intelligent Key with you when driving. The Intelligent Key is a precision device with a built-in transmitter. To avoid damaging it, please note the following.

- **Wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.**
- **Do not bend, drop or strike it against another object.**
- **Do not place the Intelligent Key for an extended period in a place where temperatures exceed 140°F (60°C).**
- **Do not change or modify the Intelligent Key.**
- **Do not use a magnet key holder.**

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— **Do not place the Intelligent Key near an electric appliance such as a television set or personal computer.**

— **Do not place the Intelligent Key in a storage area (for example, a door pocket or glove box). It could be damaged or activated unexpectedly.**

- **Do not allow the Intelligent Key to come into contact with water or salt water, and be careful not to let the key be washed in a washing machine. This could affect the system function.**
- **If an Intelligent Key or the mechanical key is lost or stolen, NISSAN recommends erasing the ID code of that Intelligent Key. This will prevent the Intelligent Key from unauthorized use to unlock the vehicle. For information regarding the erasing procedure, please contact a NISSAN dealer.**

DOOR LOCKS/UNLOCKS PRECAUTION

- After locking with the door handle request switch, pull the door handle and make sure the doors are securely locked.
- After locking with the lift gate request switch, push the lift gate opener switch and make sure the doors are securely locked.
- To prevent the Intelligent Key from being left inside the vehicle, make sure you carry the key with you and then lock the doors.
- You can lock or unlock the doors and the fuel-filler door using only the door handle request switch, which detects the Intelligent Key.
- When you try to unlock the door while pulling the door handle, the door may not unlock. In this case, release the door handle and the door will unlock. Pull the door handle again and the door will open.
- The outside beep, which indicates the lock and unlock functions, can be canceled with the LOCK/UNLOCK button on the Intelligent Key (see “Operation with intelligent remote keyless entry system” later in this section) or the vehicle electronic system on the monitor (see “4. Display screen, heater, air conditioner and audio systems”).

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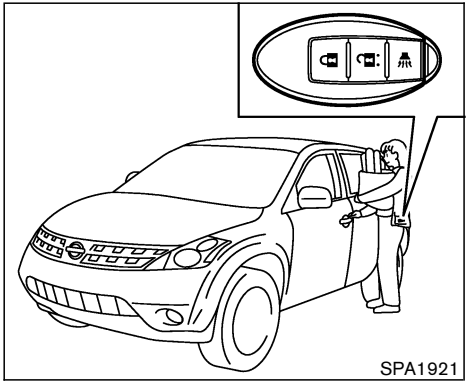
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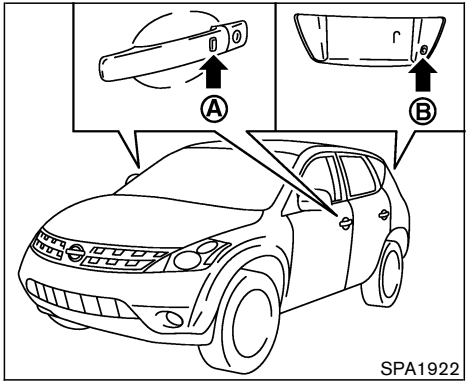
INTELLIGENT KEY OPERATION

You can lock or unlock the doors and fuel-filler door without taking the key out from your pocket or purse.



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When you carry the Intelligent Key with you, you can lock or unlock all doors by pushing the door handle request switch (A) or lift gate request switch (B) within the range of operation.

Locking doors and fuel-filler door

1. Turn the ignition switch to the LOCK position. (Remove the key if any key is in the ignition switch.)*1, *2
2. Close all the doors.*3
3. Push any door handle request switch or lift gate request switch while carrying the Intelligent Key with you.*4
4. All the doors (including the lift gate) and fuel-filler door will lock.
5. The hazard indicator flashes twice and outside buzzer sounds twice.

The hazard indicator and buzzer mode can be changed with the Intelligent remote keyless entry system (see “Operation with intelligent remote keyless entry system” later in this section) or vehicle electronic systems on the monitor (see “4. Display screen, heater, air conditioner and audio systems”).

*1: Doors lock with the door handle request switch or lift gate request switch while a mechanical or valet key is in the ignition switch or the ignition switch is pushed in.
*2: Doors lock with the door handle request switch or lift gate request switch while the ignition switch is not in the LOCK position.
*3: Doors do not lock by pushing the door handle request switch or lift gate request switch while any door is open. A beep sounds to warn you. However, doors lock with the metal key even if any door is open.
*4: Doors do not lock with door handle request switch or lift gate request switch with the Intelligent Key inside the vehicle and a beep sounds to warn you.
However, when an Intelligent Key is inside

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the vehicle, doors can be locked with another Intelligent Key.

Unlocking doors and fuel-filler door

1. Push the door handle request switch or lift gate request switch once.

Driver's side:

- The driver door and fuel-filler door unlock.

Front passenger side or lift gate:

- Only corresponding door unlocks.

2. The hazard indicator flashes once and outside buzzer sounds once if all doors are completely closed with the ignition key in any position except the ON position.
3. Push the door handle request switch or lift gate request switch again within 5 seconds.

- All doors and the fuel-filler door unlock.
- The hazard indicator flashes once and outside buzzer sounds once if all doors are completely closed.

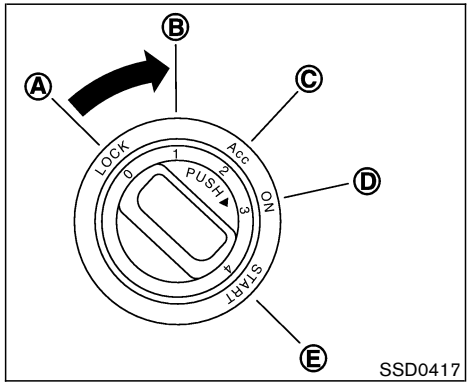
All doors will be locked automatically after pushing the door handle request switch or lift gate request switch unless one of the following operations is performed within 1 minute.

- any door is opened
- the ignition switch is pushed
- the mechanical key or the valet key is inserted into the ignition switch

Re-lock time can be adjusted or cancelled with the vehicle electronic systems on the monitor (see "4. Display screen, heater, air conditioner and audio systems").

The room light will come on for 30 seconds when the door is unlocked using the request switch.

The room light can be turned off without waiting for 30 seconds by turning the ignition switch to the ON position or by locking the doors.



OPERATING THE ENGINE

Ignition switch positions

Push in the ignition switch in the range (Ⓐ to Ⓑ) when you turn it.

LOCK (Normal parking position) Ⓐ:

The ignition switch can only be locked in the Ⓐ position.

The ignition switch will be unlocked when it is pushed in, and turned to the ACC position Ⓒ while carrying the Intelligent Key.

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ACC (Accessories) Ⓒ:

This position activates electrical accessories such as the radio, when the engine is not running.

ON (Normal operating position) Ⓓ:

This position turns on the ignition system and electrical accessories.

START Ⓔ:

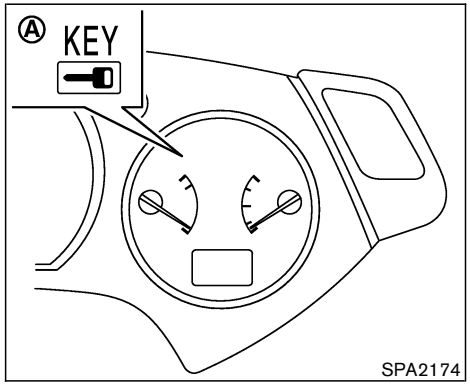
This position starts the engine. As soon as the engine has started, release the switch immediately. It will automatically return to the ON position.

For important safety information, see “Ignition switch” in the “5. Starting and driving” section.

The ignition switch cannot be turned back to the LOCK position unless the selector lever is in P position. (It can be turned to only Ⓑ.) If the ignition switch cannot be turned back to the LOCK position after shifting the selector lever to the P position, turn the ignition switch to the ACC position once and turn back to the LOCK position.

⚠ CAUTION

Do not leave the vehicle with the ignition switch in ACC or ON positions when the engine is not running for an extended period. This can discharge the battery.



Starting the engine

When driving the vehicle, be sure to carry the Intelligent Key with you.

1. Securely depress the brake pedal.
2. Slowly push the ignition switch in.
   When the Intelligent Key warning light Ⓐ in the instrument panel comes on in green, the ignition switch can be turned.
3. Turn the ignition switch to the START position and the engine will be started.
4. When the engine starts, release the ignition switch.

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WARNING

Do not start the engine from outside the vehicle through the window. Doing so could lead to an accident and injury. Be sure to sit in the driver's seat to use the key.

For important safety information, see "Starting the engine" in the "5. Starting and driving" section.

- When the ignition switch is pushed under the following conditions, the key warning light in the instrument panel comes on in red. It is not possible to turn the ignition switch when:
  - you do not have the Intelligent Key with you
  - the Intelligent Key battery has run down
  - you have a Intelligent Key for another vehicle with you
- Slowly turn the ignition switch after the key warning light comes on in green. If it is turned quickly, it may stick and be difficult to turn.
- The engine may not start if the Intelligent Key is placed:
  - inside the glove box or the door pocket
  - on the instrument panel
  - in the corner of interior compartment.
- If it is difficult to turn the ignition switch, perform the following:
  - Push the ignition switch again and slowly turn it left and to the right.
  - Turn the ignition switch while gently turning the steering wheel to the left or right.

Stopping the engine

1. Shift the selector lever to the P position.
2. Turn the ignition switch to the ACC position.

WARNING

When you leave the vehicle, be sure to observe the following:

- **Shift the selector lever to P. (In other positions, the ignition switch will not return to LOCK.)**
- **Securely return the ignition switch to LOCK.**
- **Set the parking brake. Failure to do so could result in unexpected vehicle movement and could lead to severe injury.**

INTELLIGENT KEY OPERATING RANGE

The Intelligent Key functions can be used only when you carry the key with you and operate as specified in the operating range inside or outside the vehicle.

When the Intelligent Key battery runs down or where there are strong radio waves or noise, the operating range may be narrower or the key may be inoperative.

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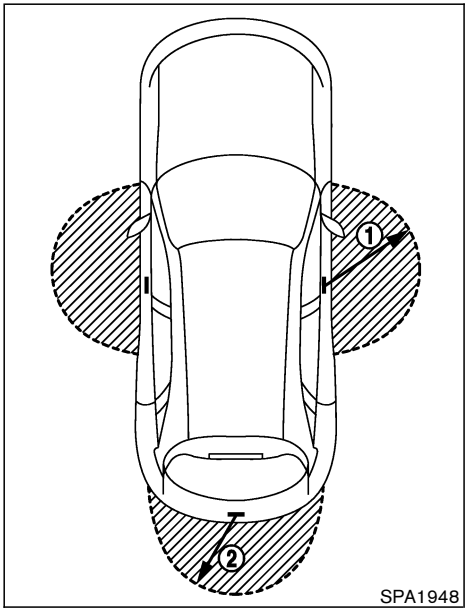


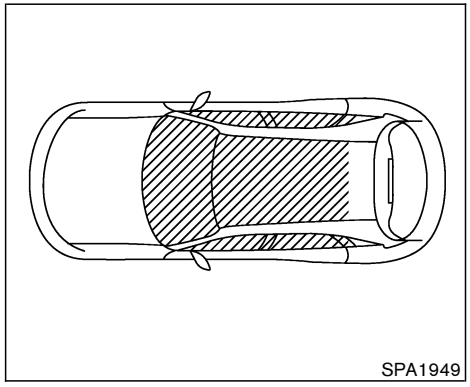
Operating range of the door lock/ unlock function

The operating range of the door lock/unlock function by pushing the door handle request switch or the lift gate request switch is shown in the illustration.

(1) 31.5 in (0.8 m) from the door handle request switch

(2) 31.5 in (0.8 m) from the lift gate request switch

- If you are too close to the door or door glass, the Intelligent Key may not operate.
- If the Intelligent Key is in the operating range, it is possible for anyone who does not carry the Intelligent Key to lock/unlock the doors by pushing the door handle request switch or the lift gate request switch.



Operating range for engine start function

The operating range for starting the engine is inside the vehicle.

- If the Intelligent Key is on the instrument panel, inside the glove box or door pocket, or the corner of interior compartment, it may not be possible to start the engine.
- If the Intelligent Key is near the door or door glass outside the vehicle, it may be possible to start the engine.

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WARNING SIGNALS

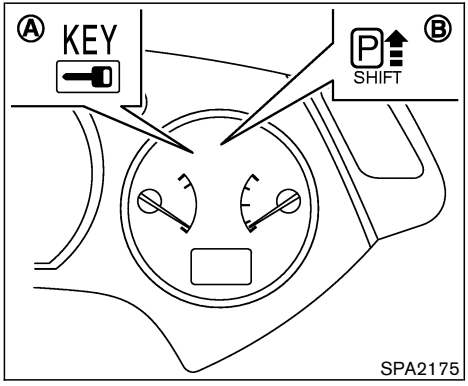
To help prevent the vehicle from moving unexpectedly by erroneous operation of the Intelligent Key or to help prevent the vehicle from being stolen, a chime or buzzer sounds from inside and outside the vehicle and a warning light comes on in the instrument panel.

When a chime or beep sounds or the warning light comes on, be sure to check the vehicle and Intelligent Key.

Audible reminder and warning when locking the doors

When the chime or buzzer sounds from inside and outside the vehicle, check for the following:

- The ignition switch is turned to the LOCK position.
- The Intelligent Key is not left inside the vehicle.
- Doors are closed securely.
- The selector lever is in the P position.



Audible reminder and warning when the engine stops

When the P position selecting warning light Ⓑ in the instrument panel blinks in red:

- Make sure the selector lever is in the P position.

When the chime sounds intermittently:

- Make sure the selector lever is in the P position and the ignition switch is turned to the LOCK position.

If the chime sounds continuously when the driver's door is opened, check the following:

- The selector lever is in the P position and the ignition switch is turned to the LOCK position.
- The mechanical key or the valet key is not inserted into the ignition switch.
- The warning chime may stop when one of the following is performed.
  - Returning the ignition switch to the LOCK position.
  - Removing the mechanical key or the valet key.
  - Closing the doors.

Alarm and warning when the engine starts

When the key warning light Ⓐ is blinking in red and the outside buzzer sounds, make sure the Intelligent Key is inside the vehicle.

Warning for low battery power

- This warning is to let you know that the battery of the Intelligent Key will run down soon. Replace it with a new one. Refer to the "8. Maintenance and do-it-yourself" section for battery replacement.
  - The green blinking key warning light Ⓐ goes out about 30 seconds after the

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ignition switch is turned to ON.

- We recommend replacing the battery at a NISSAN dealer.

Preventing the Intelligent Key from being left in the vehicle

If you lock all doors using the power door lock switch with the Intelligent Key in the vehicle, all of the doors unlock immediately and the buzzer will warn you when the door is closed.

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TROUBLE-SHOOTING GUIDE

Symptom		Possible Cause	Remedy
When pushing the door handle request switch or the lift gate request switch	The outside buzzer sounds for approximately 2 seconds.	The doors cannot be locked.	Take out the Intelligent Key from the vehicle and push the door handle request switch or the lift gate request switch.
			Turn the ignition switch to the LOCK position and push the door handle request switch or the lift gate request switch while carrying the Intelligent Key with you.
			Close all the doors securely and push the door handle request switch or the lift gate request switch while carrying the Intelligent Key with you.
When closing the doors	The outside buzzer sounds for approximately 10 seconds.	The ignition switch is not turned to the LOCK position.	Turn the ignition switch to the LOCK position.
	The key warning light in the instrument panel blinks in red and the outside buzzer sounds 3 times.	The Intelligent Key is not in the vehicle.	Be sure to carry the Intelligent Key with you.
	The outside buzzer sounds for approximately 3 seconds and all doors unlock.	The Intelligent Key has been left in the vehicle.	Take out the Intelligent Key from the vehicle and close the door.
When locking the doors	The outside buzzer sounds for approximately 3 seconds and all doors unlock.	The Intelligent Key has been left in the trunk room.	Take out the Intelligent Key from the vehicle and close the door.
When opening the driver's door	A warning chime sounds continuously.	The ignition switch is not in the LOCK position, or the mechanical key or valet key is inserted into the ignition switch.	Turn the ignition switch to the LOCK position.
			Remove the mechanical key or valet key from the ignition switch.
When stopping the engine	The P position warning light in the instrument panel blinks in red.	The selector lever is not in the P position.	Make sure that the selector lever is in the P position.
When turning the ignition switch	A warning chime sounds continuously.	The ignition switch is not turned to the LOCK position.	Turn the ignition switch to the LOCK position.
When starting the engine	The key warning light in the instrument panel blinks in green.	The battery charge is low.	Replace the battery with a new one. See "BATTERY REPLACEMENT" on page 8-24.
When pushing the ignition switch	The key warning light in the instrument panel comes on in red.	The Intelligent Key is not in the vehicle.	If the key warning light comes on in red even while you are carrying the Intelligent Key, the battery is completely discharged. Replace the battery with a new one. See "BATTERY REPLACEMENT" on page 8-24.

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Trouble-shooting examples

When it is difficult to turn the ignition switch

- Push the ignition switch and turn it to the left and then to the right.
- While gently turning the steering wheel to the left or right, turn the ignition switch.

OPERATION WITH INTELLIGENT REMOTE KEYLESS ENTRY SYSTEM

It is possible to lock/unlock all doors, fuel-filler door, activate the panic alarm and open the windows by pushing the buttons on the Intelligent Key from outside the vehicle.

Before locking the doors, make sure the key is not left in the vehicle.

The LOCK/UNLOCK button on the Intelligent Key can operate at a distance of approximately 33 ft (10 m) from the vehicle. (The effective distance depends upon the conditions around the vehicle.)
As many as 4 Intelligent Key can be used with one vehicle. For information concerning the purchase and use of an additional Intelligent Key, contact a NISSAN dealer.

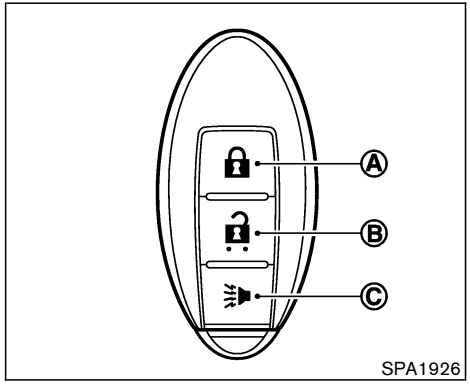
The LOCK and UNLOCK buttons on the Intelligent Key will not operate when:

- the Intelligent Key is too far away from the vehicle
- the Intelligent Key battery runs down

After locking with the Intelligent remote keyless entry function, pull the door handle to make sure the doors are securely locked.

The operating range varies depending on the environment. To securely operate the LOCK and UNLOCK buttons on the Intelligent Key, approach the vehicle to about 3 ft (1 m) from the door.

The panic alarm will not activate when the mechanical key or the valet key is in the ignition switch.



Ⓐ LOCK button
Ⓑ UNLOCK button
Ⓒ PANIC alarm

How to use remote keyless entry system

Setting hazard indicator and horn (buzzer) mode:

This vehicle is set in hazard indicator and horn (buzzer) mode when you first receive the vehicle.

The hazard indicator and horn (buzzer) mode also can be changed with vehicle electronic systems on the monitor. See “4.

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OPERATION GUIDE

MODE (Push “LOCK” and “UNLOCK” buttons for more than 2 seconds to switch)	Switching indicator	Entry manner	LOCK	UNLOCK
Hazard indicator and horn (buzzer) mode → HAZARD INDICATOR MODE	HAZARD – 3 times	LOCK/UNLOCK button on the Intelligent Key	HAZARD – twice	No operation
		Door handle request switch/ lift gate request switch		
Hazard indicator mode → HAZARD INDICATOR AND HORN (BUZZER) MODE	HAZARD – once HORN – once	LOCK/UNLOCK button on the Intelligent Key	HAZARD – twice HORN – once	HAZARD – once
		Door handle request switch/ lift gate request switch	HAZARD – twice OUTSIDE BUZZER – twice	HAZARD – once OUTSIDE BUZZER – once

SPA1950A

Display screen, heater, air conditioner and audio systems”.

For buzzer operation, refer to the following chart.

In hazard indicator and horn (buzzer) mode, when the LOCK button Ⓐ is pushed, the hazard indicator flashes twice and the horn chirps once (refer to the “operation guide” chart for the Intelligent Key request switch mode). When the UNLOCK button Ⓑ is pushed, the hazard indicator flashes once.

If hazard indicator and horn mode is not necessary, you can switch to hazard indicator only mode by following the switching procedure.

In hazard indicator only mode, when the LOCK button Ⓐ is pushed, the hazard indicator flashes twice. When the UNLOCK button Ⓑ is pushed, neither the hazard indicator nor the horn operates.

(Switching procedure)

Push the LOCK Ⓐ and UNLOCK Ⓑ buttons on the Intelligent key simultaneously for more than 2 seconds to switch from one mode to the other.

When pushing the buttons to set hazard indicator mode, the hazard indicator flashes 3 times.

When pushing the buttons to set hazard indicator and horn mode, the hazard indicator flashes once and the horn chirps once.

Locking doors and fuel-filler door:

1. Remove the mechanical key or the valet key if any key is in the ignition switch.*1
2. Close all the doors.*2
3. Push the LOCK button Ⓐ on the Intelligent Key.
4. All the doors (including lift gate) and fuel-filler door will lock.

All of the doors will lock when the LOCK button Ⓐ on the Intelligent Key is pushed

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even though the ignition switch is in the ON position.

5. The hazard indicator flashes twice and the horn chirps once.

- When the LOCK button Ⓐ is pushed with all doors locked, the hazard indicator flashes twice and the horn chirps once as a reminder that the doors are already locked.

*1: Doors lock with the Intelligent Key while the mechanical key or the valet key is in the ignition switch or the ignition switch is pushed in.
*2: Doors do not lock and buzzer sounds when the LOCK button is pushed while any door is open.

Unlocking doors and fuel-filler door:

1. Push the UNLOCK button Ⓑ on the Intelligent Key once.

- The driver's door and fuel-filler door unlock
- The hazard indicator flashes once if all doors are completely closed with the ignition switch in any position except the ON position.
- The interior light turns on and the light timer activates for 30 seconds when the switch is in the DOOR position with the ignition switch in any position except the ON position.

2. Push the UNLOCK button Ⓑ on the Intelligent Key again within 5 seconds.

- All doors unlock.
- Lift gate unlocks.
- The hazard indicator flashes once if all doors are completely closed.

All doors will be locked automatically unless one of the following operations is performed within 1 minute of pushing the UNLOCK button Ⓑ.

- any door is open
- the ignition switch is pushed
- the mechanical key or the valet key is inserted into the ignition switch

The interior light can be turned off without waiting for 30 seconds by turning the ignition switch to the ON position or by locking the doors with the Intelligent Key.

Opening and closing front windows:

- To open the windows, push the UNLOCK button Ⓑ for **about 3 seconds** or turn the driver's door key lock with the metal key to the rear of the vehicle for **about 2 seconds** after the door is unlocked.

  To stop opening, release the UNLOCK button Ⓑ or turn the key to the neutral position.

- To close the front windows, turn the driver's door key lock to the front of the vehicle for **about 2 seconds** after the door is locked.

  To stop closing, turn the key to the neutral position.

The door windows will open or close while turning the metal key. See "Doors" earlier in this section.

Using the panic alarm:

If you are near your vehicle and feel threatened, you may activate the alarm to call attention as follows:

1. Push the PANIC button Ⓒ on the Intelligent Key for **longer than 0.5 seconds** with the metal key removed from the ignition switch or the ignition switch not pushed in.
2. The theft warning alarm and headlights will stay on for 25 seconds.
3. The panic alarm stops when:

- It has run for 25 seconds, or
- Any of the buttons on the Intelligent Key are pushed.

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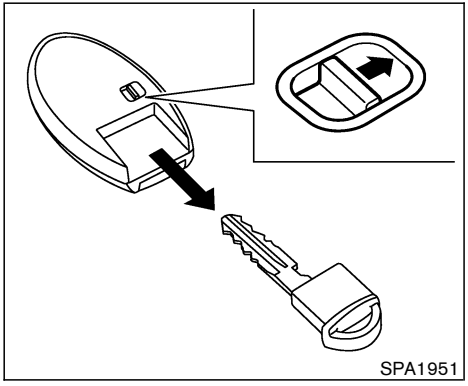
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OPERATION WITH THE MECHANICAL KEY AND VALET KEY

If the Intelligent Key cannot be used because its battery is discharged, use the metal key to lock or unlock the doors and use the mechanical key or the valet key, which is registered to the NISSAN Vehicle Immobilizer System components, to start the engine.

Removing the mechanical key

- Release the lock knob at the back of the intelligent key and remove the mechanical key.
- To install the mechanical key to the intelligent key, securely lock the lock knob and then check that the mechanical key will not move.

CAUTION

Be sure to carry the Intelligent Key with the mechanical key installed in it.

Locking/unlocking the doors with the key (mechanical key and valet key)

The doors can be locked/unlocked by inserting the mechanical and valet key into the key cylinder in the driver's door in the same way as the ordinary key.

Starting the engine with the mechanical key and valet key

1. Securely depress the brake pedal.
2. Insert the mechanical key or the valet key into the ignition switch.
3. Turn the ignition switch to the START position and start the engine.
4. After starting the engine, release the switch.

For important safety information, see the "5. Starting and driving" section.

Windows open/close with the mechanical key

See "Opening and closing windows" on the previous page.

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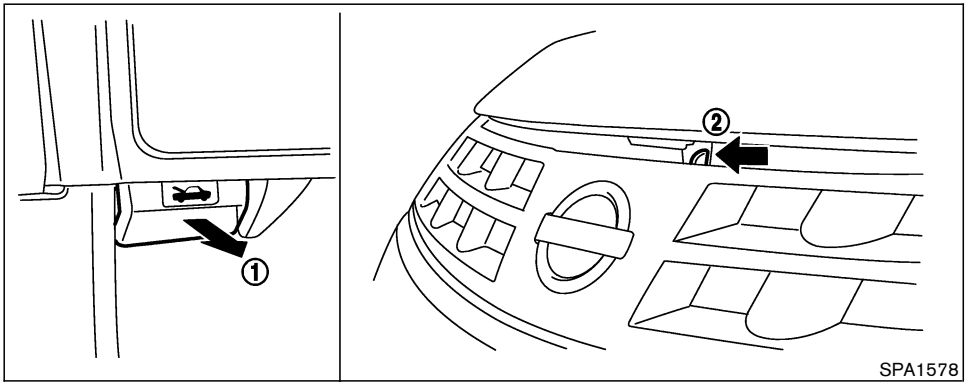
HOOD

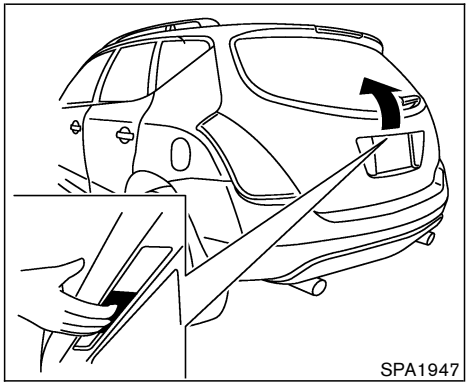


1. Pull the hood lock release handle (1) located below the instrument panel; the hood will then spring up slightly.
2. Move the lever (2) at the front of the hood with your fingertips and raise the hood.
3. When closing the hood, slowly close the hood and make sure it locks into place.

WARNING

- **Make sure the hood is completely closed and latched before driving. Failure to do so could cause the hood to fly open and result in an accident.**
- **If you see steam or smoke coming from the engine compartment, to avoid injury do not open the hood.**

LIFT GATE



- The power door lock system allows you to lock or unlock all doors including the lift gate simultaneously.
- Push the opener switch and pull up the lift gate to open.

WARNING

Do not drive with the lift gate open. This could allow dangerous exhaust gases to be drawn into the vehicle. See “Precautions when starting and driving”

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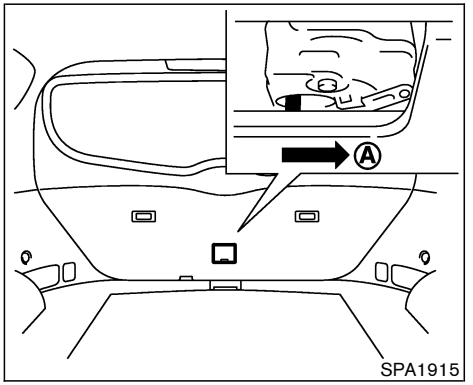
in the “5. Starting and driving” section for exhaust gas.



Emergency unlock lever

If the lift gate cannot be opened with the door lock switch or remote controller due to a discharged battery, follow the next steps.

1. Remove the cover inside of the lift gate with a suitable tool.
2. Move the lever toward the direction Ⓐ as illustrated to open the lift gate.

Contact a NISSAN dealer as soon as possible.

⚠ WARNING

- **Always be sure the lift gate has been closed securely to prevent it from opening while driving.**
- **Do not drive with the lift gate open. This could allow dangerous exhaust gases to be drawn into the vehicle.**

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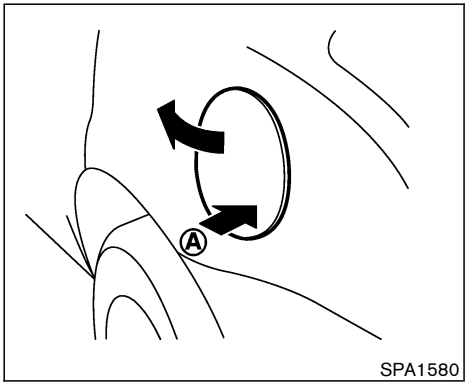
FUEL-FILLER DOOR



OPEN THE FUEL-FILLER DOOR

To open the fuel-filler door, unlock it using one of the following operations, then push the right-hand side of the lid (A).

- Push the unlock button on the remote keyless entry once.
- Insert the key into the door lock cylinder and turn the door key clockwise twice.
- Push the power door lock switch to the unlock side.
- Push the driver's side door handle request switch once (Intelligent Key equipped model).
- Push the passenger side door handle request switch or lift gate request switch twice (Intelligent Key equipped model).

To lock, close the fuel-filler door and lock the doors.

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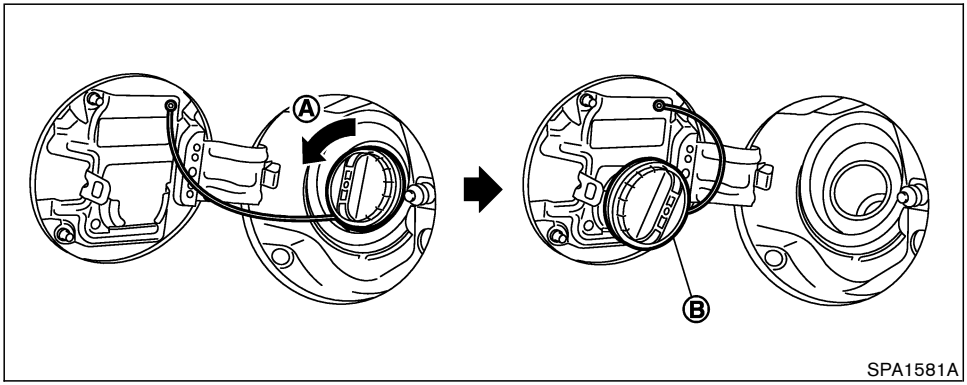

FUEL-FILLER CAP

The fuel-filler cap is a ratcheting type. Turn the cap counterclockwise (A) to remove.

To tighten, turn the cap clockwise until ratcheting clicks are heard.

Put the fuel-filler cap on the cap holder (B) while refueling.

WARNING

- **Gasoline is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refueling.**
- **Fuel may be under pressure. Turn the cap a third of a turn, and wait for any "hissing sound" to stop to prevent fuel from spraying out and possibly causing personal injury. Then remove the cap.**
- **Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically.**
  Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.
- **Use only an original equipment type fuel-filler cap as a replacement. It has a built-in safety valve needed for proper operation of the fuel system and emission control system. An incorrect cap can result in a serious malfunction and possible injury. It could also cause the SERVICE ENGINE SOON malfunction indicator light to come on.**
- **Do not fill a portable fuel container in the vehicle or trailer. Static electricity can cause an explosion of flammable liquid, vapor or gas in any vehicle or trailer. To reduce the risk of serious injury or death when filling portable fuel containers:**
  - **— Always place the container on the ground when filling.**
  - **— Do not use electronic devices**

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when filling.

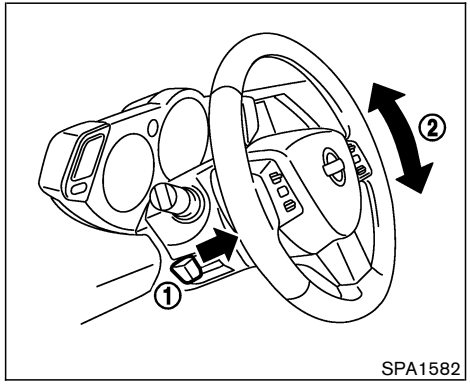
— Keep the pump nozzle in contact with the container while you are filling it.

— Use only approved portable fuel containers for flammable liquid.

- Never pour fuel into the throttle body to attempt to start your vehicle.

CAUTION

- If fuel is spilled on the vehicle body, flush it away with water to avoid paint damage.
- Tighten until the fuel-filler cap clicks. Failure to tighten the fuel-filler cap properly may cause the SERVICE ENGINE SOON malfunction indicator light (MIL) to illuminate. If the SERVICE ENGINE SOON light illuminates because the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The SERVICE ENGINE SOON light should turn off after a few driving trips. If the SERVICE ENGINE SOON light does not turn off after a few driving trips, have the vehicle inspected by a NISSAN dealer.
- For additional information, see the "Malfunction indicator light (MIL)" in the "Instruments and controls" section.



SPA1582

WARNING

- Do not adjust the steering wheel while driving. You could lose control of your vehicle and cause an accident.
- Do not put anything on or near the steering wheel when tilting.

TILT OPERATION

The steering wheel will pop up when the lock

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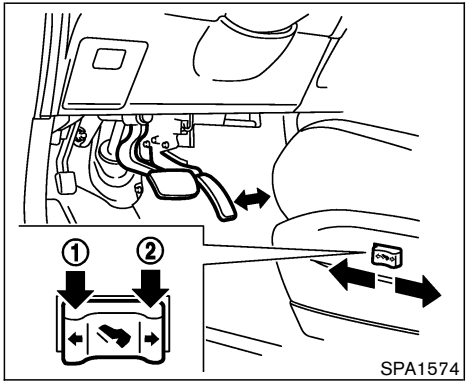
lever is pulled as illustrated (1).

Keep holding the lock lever and adjust the steering wheel to the desired position (2).

Release the lock lever to lock the steering wheel.

PEDAL POSITION ADJUSTMENT (if so equipped)



The accelerator and brake pedals can be adjusted for driving comfort.

Use the pedal adjusting switch to adjust the brake and accelerator pedal position forward (1) or backward (2). Pedal adjustment can only be performed when:

- Ignition switch is in the OFF, ACC or LOCK position, or
- Ignition switch is ON and the selector lever is in the P (Park) position

The brake and accelerator pedals cannot be adjusted separately.

CAUTION

Do not adjust the pedal position with your foot on the pedal.

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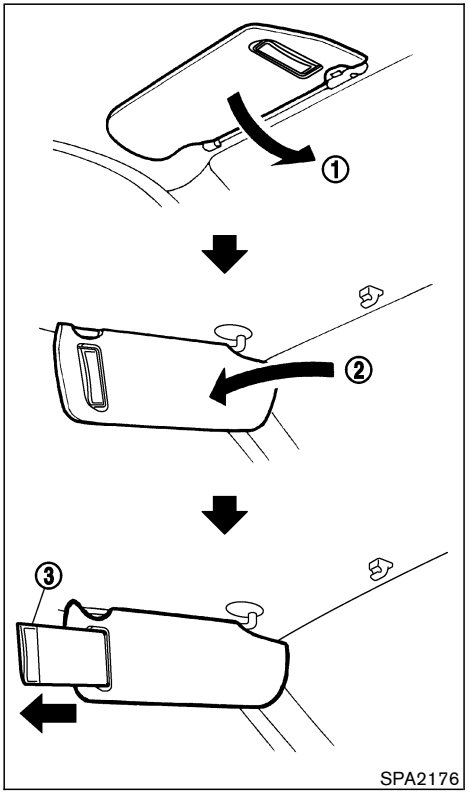
SUN VISORS



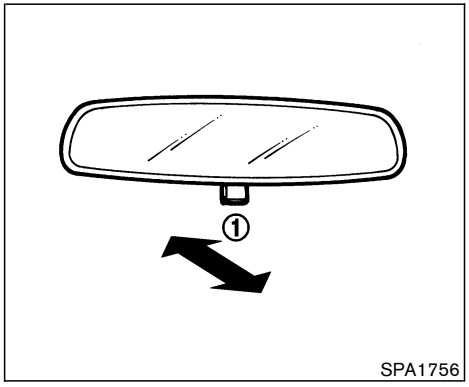
SPA2176

CAUTION

- **Do not store the main sun visor before storing the extension sun visor.**
- **Do not pull the extension sun visor forcedly downward.**

1. To block out glare from the front, swing down the main sun visor (1).
2. To block glare from the side, remove the main sun visor from the center mount and swing it to the side (2).
3. Draw out the extension sun visor (3) from the main sun visor (4) to block further glare.

MIRRORS



SPA1756

INSIDE MIRROR

While holding the inside rearview mirror, adjust the mirror angles until the desired position is achieved.

The adjusting lever (1) can be operated when the glare from the headlights of the vehicle behind you obstructs your vision at night.

WARNING

Use the night position only when necessary, because it reduces rear view clar-

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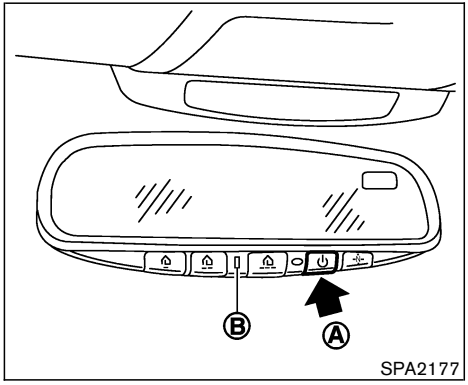
ity.



AUTOMATIC ANTI-GLARE INSIDE MIRROR (if so equipped)

The inside mirror is designed so that it automatically changes reflection according to the intensity of the headlights of the vehicle following you.

The anti-glare system will be automatically turned on when you turn the ignition switch to the ON position.

When the inside MIRROR switch (A) is turned on (The indicator light (B) will illuminate), excessive glare from the headlights of the vehicle behind you will be reduced. Push the MIRROR switch (A) to turn the system off (the indicator light goes off), and the inside mirror will operate normally.

To turn on the system again, push the MIRROR switch once again.

For the HomeLink® Universal Transceiver and the compass display, see the description in the "2. Instruments and controls" section.

Do not hang any object on the mirror or apply glass cleaner. Doing so will reduce the sensitivity of the sensor, resulting in improper operation.

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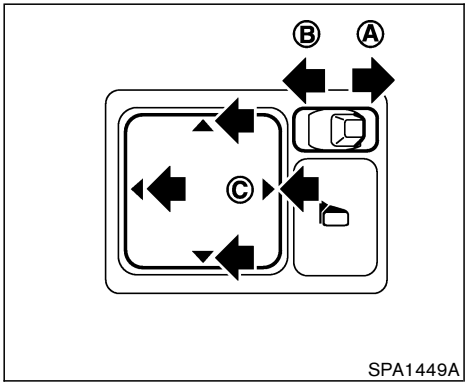


SPA1449A

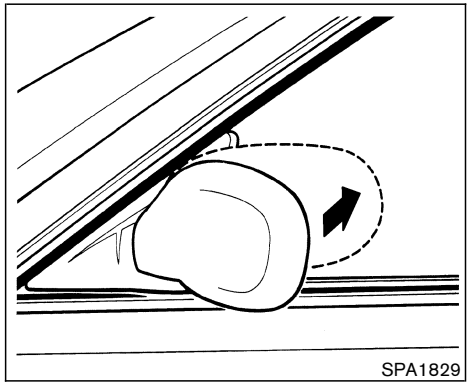
OUTSIDE MIRRORS

WARNING

Objects viewed in the outside mirror on the passenger side are closer than they appear. Be careful when moving to the right. Using only this mirror could cause an accident. Use the inside mirror or glance over your shoulder to properly judge distances to other objects.

The outside mirror switch, located in front of the selector lever, will operate only when the ignition switch is in the ACC or ON position.

Move the switch to right Ⓐ or left Ⓑ to select the right or left outside mirror, then adjust the mirror to the desired position by pushing the button Ⓒ.


SPA1829

Foldable outside mirrors

Fold the outside mirror by pushing it toward the rear of the vehicle.

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AUTOMATIC DRIVE POSITIONER (if so equipped)

The automatic drive positioner system has two features:

- Entry/exit function
- Memory storage

ENTRY/EXIT FUNCTION

This system is designed so that the driver's seat and outside mirror will automatically move when the selector lever is in the P (Park) position. This allows the driver to get into and out of the driver's seat more easily.

The driver's seat will slide backward:

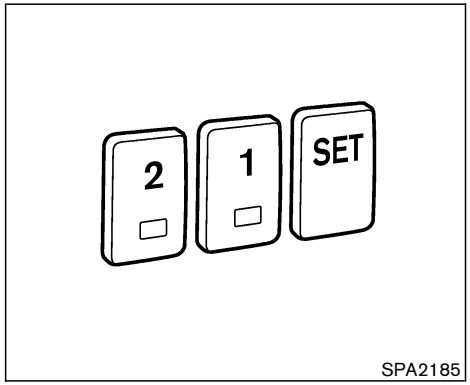
The driver's seat will slide backward when the driver's door is opened with the ignition switch (knob) in the LOCK position.

The driver's seat will return to the previous position:

- When the key is inserted into the ignition switch after closing the driver's door, or when the driver's door is closed after inserting the key into the ignition switch.
- When the ignition switch is pushed with the driver's door closed. (Intelligent Key equipped model)
- When the key or ignition switch is turned to the ON position.
- The driver's seat will not return to the previous positions if the seat adjusting switch is operated when the seat is at the exit position.

The entry/exit feature can be canceled. See "4. Display screen, heater, air conditioner and audio systems" section of this manual.

The entry/exit function can be activated or cancelled by pressing and holding the SET switch for more than 10 seconds while the ignition key is in the LOCK position. The indicator light will blink once when the function is cancelled, and the indicator light will blink twice when the function is activated. If the battery cable is disconnected, or if the fuse opens, the entry/exit function will be cancelled. In such a case, after connecting the battery or replacing with a new fuse, open and close the driver's door more than two times with the ignition key or ignition switch in the LOCK position to activate the entry/exit function.



SPA2185

MEMORY STORAGE

Two positions for the driver's seat, pedals (Brake and Accelerator) and outside mirrors can be stored in the automatic drive positioner memory. Follow these procedures to use the memory system.

1. Set the selector lever to the P (Park) position.
2. Adjust the driver's seat, pedals (Brake and Accelerator) and outside mirrors to the desired positions by manually operating each adjusting switch. For additional information, see "Seats" in the "1. Safety — seats, seat belts and supplemental restraint system"

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section and “Pedal position adjustment” and “Outside mirrors” earlier in this section.

3. Turn the ignition ON.
4. Push the SET switch and, within 5 seconds, push the memory switch (1 or 2) fully for at least 1 second.

   The indicator light for the pushed memory switch will come on and stay on for approximately 5 seconds after pushing the switch. After the indicator light goes off, the selected positions are stored in the selected memory (1 or 2).

If memory is stored in the same memory switch, the previous memory will be deleted.

Linking a remote keyless entry to a stored memory position

A remote keyless entry can be linked to a stored memory position with the following procedure.

1. Follow the steps for storing a memory position.
2. While the indicator light for the memory switch being set is illuminated for 5 seconds, push the unlock button on the remote keyless entry. The indicator light will blink. After the indicator light goes off, the remote keyless entry is linked to that memory setting.

With the key removed from the ignition switch, push the unlock button on the keyfob. The driver’s seat, pedals (Brake and Accelerator) and outside mirrors will move to the memorized position.

Confirming memory storage

- Turn the ignition switch to the ON position and push the SET switch. If the main memory has not been stored, the indicator light will come on for approximately 0.5 seconds. When the memory has stored the position, the indicator light will stay on for approximately 5 seconds.
- If the battery cable is disconnected, or if the fuse opens, the memory will be canceled. In this case, reset the desired position using the previous procedure.
- If a new memory is stored, the previous memory and link will be erased. In this case, reset the desired position and link using the previous procedure.

Selecting the memorized position

1. Set the selector lever to the P (Park) position.
2. Turn the ignition ON.
3. Push the memory switch (1 or 2) fully for at least 1 second.

   The driver’s seat, pedals (Brake and Accelerator) and outside mirrors will move to the memorized position with the indicator light flashing, and then the light will stay on for approximately 5 seconds.

SYSTEM OPERATION

The automatic drive positioner system will not work or will stop operating under the following conditions:

- when the vehicle speed is above 4 MPH (7 km/h).
- when the adjusting switch for the driver’s seat, pedals and outside mirror are operated while the automatic drive positioner is operating.
- when the memory switch (1 or 2) and the SET switch is not pushed for at least 1 second.
- when the seat, pedals and outside mirror have been already moved to the memorized positions.
- when no seat, pedals and outside mirror positions are stored in the memory switch.
- when the engine is started while moving the automatic drive positioner.
- when the selector lever is moved from the P

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position to any other position (However, it will not be cancelled if the switch is pushed while the seat is returning to the previous positions (entry/exit function).).

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MEMO

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4 Display screen, heater, air conditioner and audio systems

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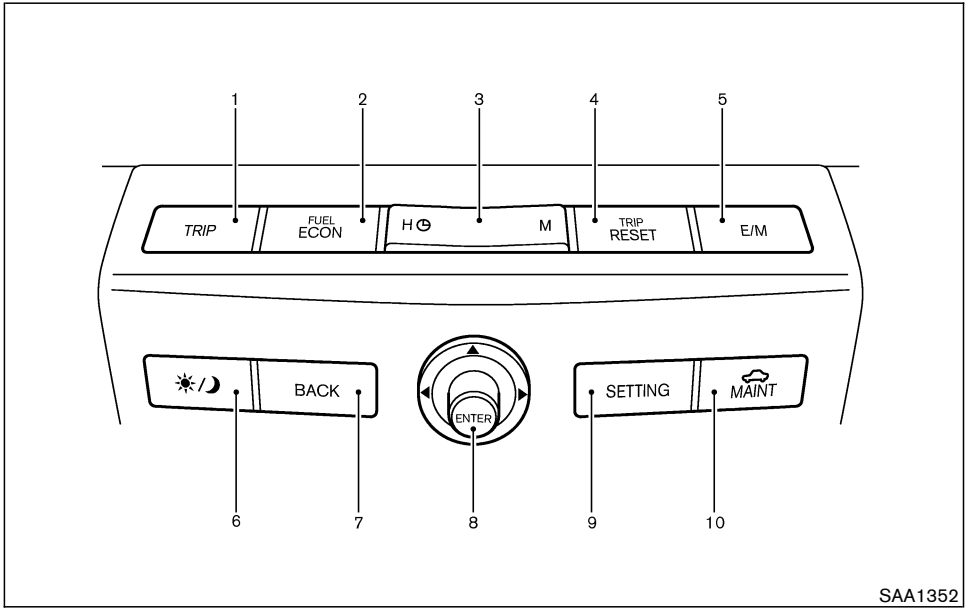
SAFETY NOTE

WARNING

- **Do not disassemble or modify this system. If you do, it may result in accidents, fire, or electrical shock.**
- **Do not use this system if you notice any abnormality, such as a frozen screen or lack of sound. Continued use of the system may result in accident, fire or electric shock.**
- **In case you notice any foreign object in the system hardware, spill liquid on it, or notice smoke or smell coming from it, stop using the system immediately and contact a NISSAN dealer. Ignoring such conditions may lead to accidents, fire, or electrical shock.**

CONTROL PANEL BUTTONS — WITHOUT NAVIGATION SYSTEM



1. “TRIP” button
2. “FUEL ECON” button
3. Clock adjust button
4. “TRIP RESET” button
5. “E/M” button
6. “DAY/NIGHT” button
7. “BACK” button
8. JOYSTICK and “ENTER” button

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9. “SETTING” button

10. “MAINT” maintenance button

Make sure the engine is running before using this system.

If you use the system with the engine not running (ignition ON or ACC) for a long time, it will use up all the battery power, and the engine will not start.

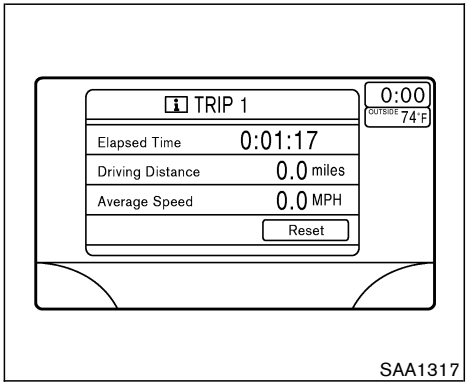
HOW TO USE JOYSTICK AND “ENTER” BUTTON

Choose an item on the display using the joystick. Push the “ENTER” button only when the use of it is instructed on the display.

HOW TO USE “BACK” BUTTON

Finish setup:

If you push the “BACK” button after the setup is completed, the display will return to the previous screen.



SAA1317

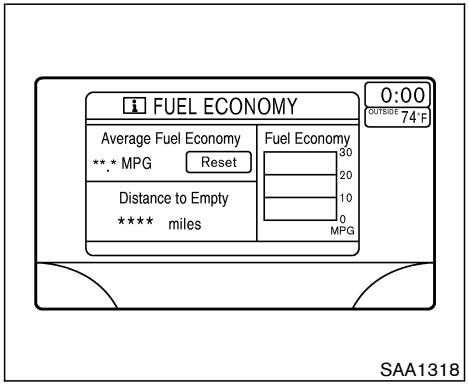
HOW TO USE “TRIP” BUTTON

When the “TRIP” button is pushed, the following modes will display on the screen.

TRIP 1 (TIME, DIST, AVG) → TRIP 2 (TIME, DIST, AVG) → OFF

Elapsed Time, Driving Distance and Average Speed will be displayed.

To reset, select the “Reset” key using the joystick and push the “ENTER” button, or push the “TRIP RESET” or “TRIP” button for more than approximately 1.5 seconds.



SAA1318

HOW TO USE “FUEL ECON” BUTTON

Average Fuel Economy and Distance to Empty will be displayed for reference when the “FUEL ECON” button is pushed.

To reset, select the “Reset” key using the joystick and push the “ENTER” button, or push the “TRIP RESET” or “TRIP” button for more than approximately 1.5 seconds.

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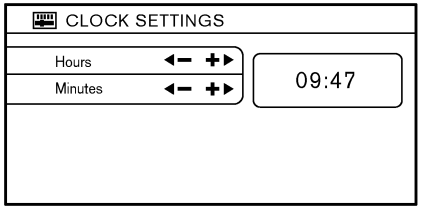


SAA1353

CLOCK

The digital clock displays time when the ignition switch is in ACC or ON.

If the battery cable is disconnected, the clock will not indicate the correct time. Readjust the time.

Adjusting the time

To adjust the time, push the “H” or “M” button for more than approximately 1.5 seconds. The time indicator will flash.

Push the **H** button to adjust the hour.

Push the **M** button to adjust the minute.

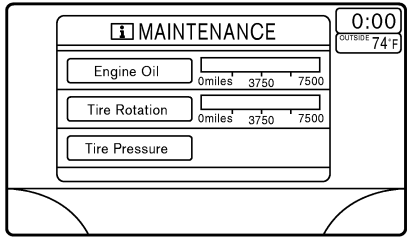
To finish the adjusting, push the “BACK” button or the screen will return to normal after 10 seconds.

The clock can be adjusted on the setting display. See the “HOW TO USE “SETTING” BUTTON” later in this section.

HOW TO USE “E/M” BUTTON

You can change the unit as follows using the “E/M” (English/Metric) button.

Unit: US — Mile, °F, MPG
Metric — km, °C, L/100 km



SAA1319

HOW TO USE “MAINT” (Maintenance) BUTTON

Maintenance and tire pressure information (if so equipped) will be displayed when the “MAINT” button is pushed.

To display the setting of the maintenance interval, select the “Engine Oil” or “Tire Rotation” key using the joystick and push the “ENTER” button.

To set the maintenance interval, select the “Maintenance Schedule” key by using the joystick and move the joystick to the right or left.

To reset the maintenance interval, select the

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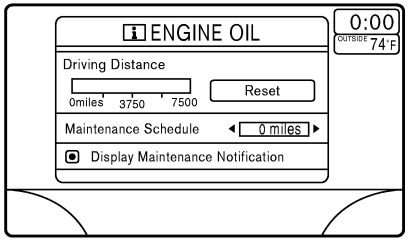
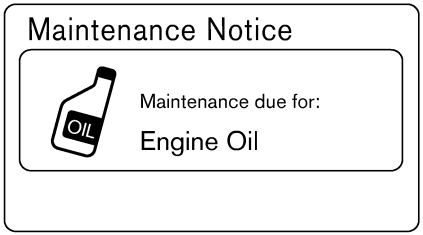


SAA1320

“Reset” key using the joystick and push the “ENTER” button.

To display the MAINTENANCE NOTICE, automatically when setting trip distance is reached, select the “Display Maintenance Notification” key and push the “ENTER” button.



SAA1354

MAINTENANCE NOTICE

The “MAINTENANCE NOTICE” screen (“ENGINE OIL” or “TIRE ROTATION”) will be automatically displayed as shown when both of the following conditions are met:

- the vehicle is driven the set distance and the ignition switch is turned OFF.
- the ignition key is turned ON the next time the vehicle will be driven.

To return to the previous display after the “MAINTENANCE NOTICE” screen is displayed, push the “BACK” button.

The “MAINTENANCE NOTICE” screen displays each time the key is turned ON until one of the following conditions are met:

- “RESET” is selected.
- “Display Maintenance Notification” is set OFF.
- the maintenance interval is set again.

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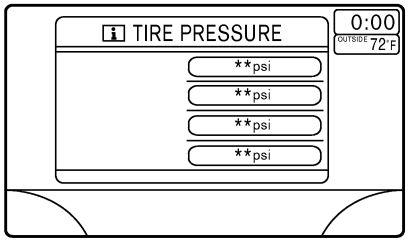


SAA1321

Tire pressure information (if so equipped)

Pressure indication in ** psi on the screen indicates that the pressure is being measured. After a few driving trips, the pressure for each tire will be displayed randomly.

The order of tire pressure figures displayed on the screen does not correspond with the actual order of the tire position.

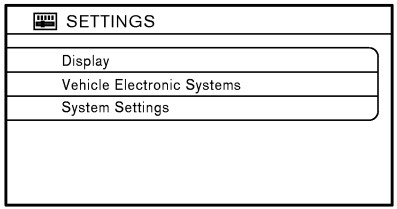
Tire pressure rises and falls depending on the heat caused by the vehicle's traveling condition and the temperature.

In case of low tire pressure, a message (FLAT TIRE or CHECK ALL TIRE) is displayed on the screen:

FLAT TIRE — Check All Tires.

WARNING

- **When a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated, the Tire Pressure Monitoring System (TPMS) will not function and the low tire pressure warning light will flash for approximately 1 minute and remain on after the 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**

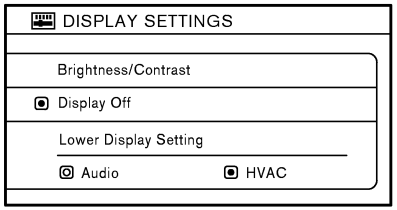


SAA1355

HOW TO USE "SETTING" BUTTON

The SETTINGS screen will appear when the "SETTING" button is pushed.

Information Provided by:
DEALER E-PROCESS



SAA1550

“Display” settings

The DISPLAY SETTINGS screen will appear when selecting the “Display” key and pushing the “ENTER” button.

Brightness/Contrast:

To adjust the brightness and contrast of the screen, select the “Brightness/Contrast” key and push the “ENTER” button. Then you can adjust the brightness to Darker or Brighter, the contrast to Lower or Higher using the joystick.

Display Off:

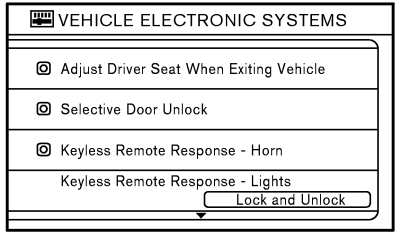
To turn off the screen, push the “SETTING” button and select the “Display” key and “Display Off” key. The indicator of the “Display Off” will turn on. When any mode button is pushed with the screen off, the screen turns on for further operation. The screen will turn off automatically 5 seconds after the operation is finished.

To turn on the screen, push the “SETTING” button and select the “Display” key and “Display Off” key, then set the screen to on by pushing the “ENTER” button.

Setting Audio or HVAC display:

Choose the “Audio” or “HVAC” (Heater and air conditioner) key to be displayed at the bottom, by using the joystick. The audio or HVAC (heater, air conditioner) setting condition will normally appear on the screen.

To return to the setting screen, push the “SETTING” button or “BACK” button.



SAA1357

Vehicle electronic systems

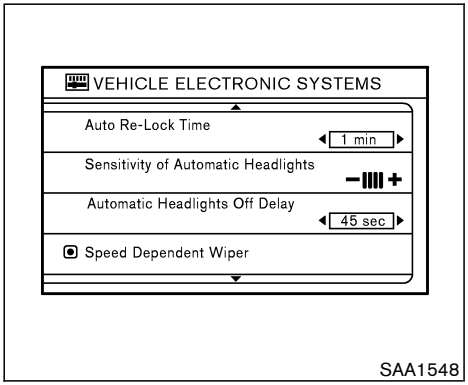
The VEHICLE ELECTRONIC SYSTEMS screen will appear when selecting the “Vehicle Electronic Systems” key with the joystick and pushing the “**ENTER**” button.

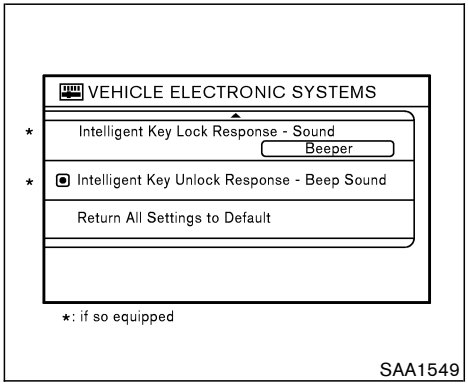
You can set the various electronic systems operating conditions.

To set an operating condition, select the applicable item using the joystick, and push the “ENTER” button.

The indicator light alternately turns on and off each time the “ENTER” button is pushed.
Indicator light is illuminated. — ON

Information Provided by:
DEALER E-PROCESS





Indicator light is not illuminated. — OFF

Adjust driver seat when exiting vehicle:

The driver's seat automatically moves back and returns to the original position for ease of exit and entry.

Selective door unlock:

This key can switch the unlock doors of the 1st unlocking operation as follows:

ON (Only the driver side door) ←→ OFF (All the doors)

Keyless Remote Response — Horn*:

This key changes the horn chirp mode that occurs when pushing the LOCK button on the keyfob or the Intelligent Key.

Keyless Remote Response — Lights*:

This key changes the hazard indicator flash mode that occurs when pushing the LOCK or UNLOCK button on the keyfob or the Intelligent Key.

*** Even if you change the horn chirp or the hazard flash with the keyfob or the Intelligent Key, the change may not be reflected in the display. Use the keyfob or the Intelligent Key to return to the previous mode.**

Auto Re-Lock Time:

The length of the auto door re-lock time can be set. Select the "Auto Re-Lock Time" key, then move the joystick and push the ENTER button to adjust the time.

Sensitivity of Automatic Headlights:

Automatic light illumination can be set as desired.

Select the "Sensitivity of Automatic Headlights" key, then move the joystick to the left (lower) or right (higher).

Automatic Headlights Off Delay:

You can control how long it takes the automatic turn off timer to extinguish the headlights in the AUTO position.

Select the "Automatic Headlights Off Delay" key, then move the joystick to the left or right to adjust the timer.

Speed Dependent Wiper:

When this item is turned to on, the wiper interval is adjusted automatically according to the vehicle speed.

Intelligent Key Lock Response — Sound (if so equipped):

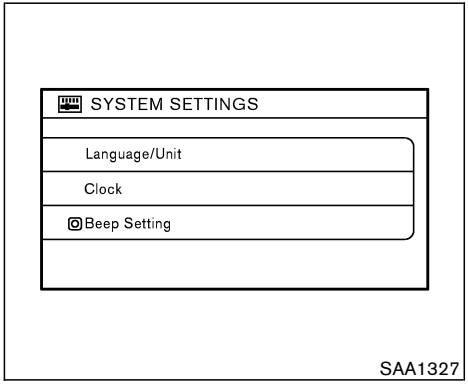
The sound pattern of the Intelligent request switch operation can be set as desired. Select the “Intelligent Key lock response — Sound” key, then push the ENTER button to change the sound pattern.

Intelligent Key Unlock Response — Beep Sound (if so equipped):

The beep sounds when unlocking door with the Intelligent request switch can be turned on or off.

Return All Settings to Default:

When this key is selected and turned on using the “ENTER” button, all settings made by VEHICLE ELECTRONICS will return to the initial conditions.



System settings

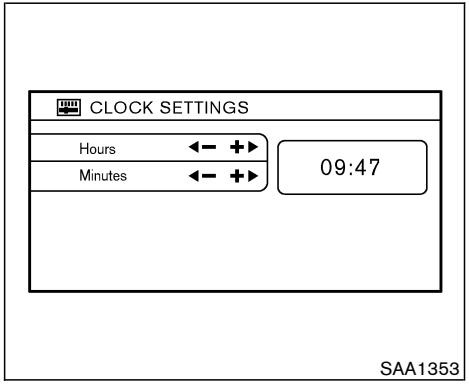
Language/Unit:

The LANGUAGE/UNIT screen will appear when selecting the “Language/Unit” key and pushing the “ENTER” button.

Language: English or French

Unit: US — Mile, °F, MPG
Metric — km, °C, L/100 km

You can select the language and unit using the joystick and “ENTER” button.



Clock:

Adjusting the time

Select the “Hours” or “Minutes” key and move the joystick to the right or left to adjust the time.

The time will change step by step.

After completion of the setting, push the “BACK” button.

Information Provided by:
DEALER E-PROCESS

“DAY/NIGHT” BUTTON

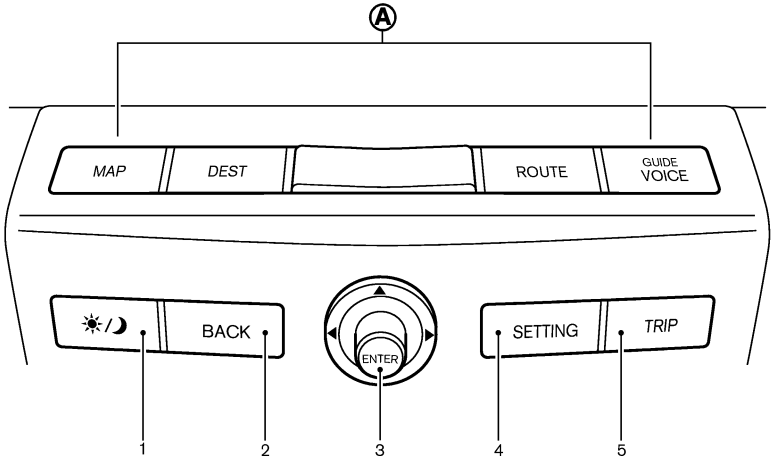
Pushing the “DAY/NIGHT” button will change the display to the DAY or NIGHT display. Then, adjust the brightness moving the joystick right or left.

If no operation is done within 10 seconds, or if the “BACK” button is pushed, the display will return to the previous display.

Pushing the “DAY/NIGHT” button for more than approximately 2 seconds will turn the display off and on.

Information Provided by:
DEALER E-PROCESS

CONTROL PANEL BUTTONS — WITH NAVIGATION SYSTEM



SAA1316

1. “DAY/NIGHT” button
2. “BACK” button
3. Joystick and “ENTER” button
4. “SETTING” button
5. “TRIP” button

Ⓐ: For Navigation system control buttons; refer to the separate Navigation System Owner’s Manual.

When you use this system, make sure the engine is running.

If you use the system with the engine not running (ignition ON or ACC) for a long time, it will use up all the battery power, and the engine will not start.

HOW TO USE JOYSTICK AND “ENTER” BUTTON

Choose an item on the display using the joystick and push the “ENTER” button for operation.

HOW TO USE “BACK” BUTTON

This has two functions.

- Go back to the previous display (cancel).

If you push the “BACK” button during setup, the setup will be canceled and/or the display will return to the previous screen.

Information Provided by: DEALER E-PROCESS

- Finish setup.

If you push the “BACK” button after the setup is completed, the setup will start over, and the display will return to the climate control or Audio mode, and Navigation screen.

SETTING UP THE START-UP SCREEN

When you turn the ignition switch to ACC, the SYSTEM START-UP warning is displayed on the screen. Read the warning and select the “I AGREE” (English) or “ENTER” (Français) key then push the “ENTER” button.

If you do not push the “ENTER” button, this system will not proceed to the next step display.

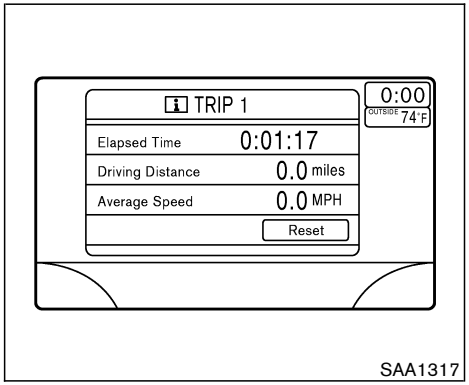
If you do not push the button or select the screen key for more than 1 minute on the TRIP, SETTING or START-UP screen, the screen will change to TRIP screen automatically.

To proceed to the next step, refer to the separate Navigation System Owner’s Manual.

HOW TO USE THE “TRIP” BUTTON

When the “TRIP” button is pushed, the following modes will display on the screen.

Warning message (if there are any) → TRIP 1 → TRIP 2 → FUEL ECONOMY → MAINTENANCE.

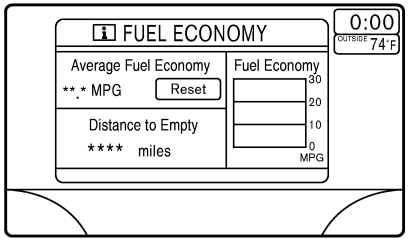


“TRIP” information

Elapsed Time, Driving Distance and Average Speed will be displayed.

To reset, select the “Reset” key using the joystick and push the “ENTER” button or push the “TRIP” button for more than approximately 1.5 seconds.

Information Provided by:
DEALER E-PROCESS

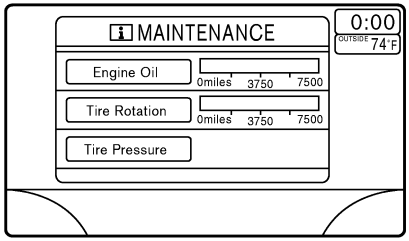


SAA1318

“FUEL ECONOMY” information

Average Fuel Economy and Distance to Empty will be displayed for reference.

To reset, select the “Reset” key using the joystick and push the “ENTER” button or push the “TRIP” button for more than approximately 1.5 seconds.



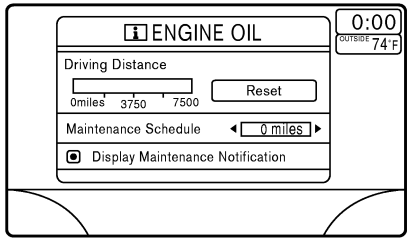
SAA1319

“MAINTENANCE” information

You can set the engine oil and the tire rotation interval.

And the tire pressure will appear on the screen (if the tire pressure system is equipped).

To display the setting of the maintenance interval, select the “Engine Oil” or “Tire Rotation” key using the joystick and push the “ENTER” button.



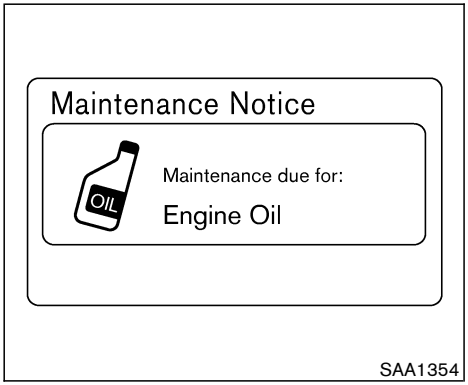
SAA1320

To set the maintenance interval, select the “Maintenance Schedule” key by using the joystick and move the joystick to the right or left.

To reset the maintenance interval, select the “Reset” key using the joystick and push the “ENTER” button.

To display the MAINTENANCE NOTICE, automatically when setting trip distance is reached, select the “Display Maintenance Notification” key and push the “ENTER” button.

Information Provided by:
DEALER E-PROCESS



SAA1354

MAINTENANCE NOTICE

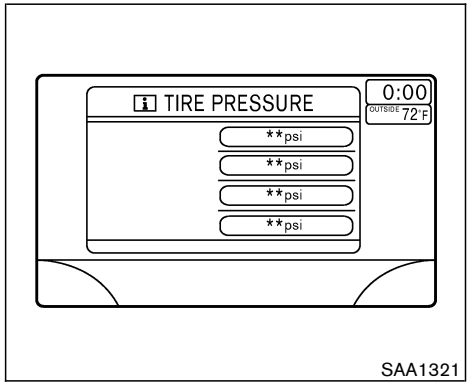
The “MAINTENANCE NOTICE” screen (“ENGINE OIL” or “TIRE ROTATION”) will be automatically displayed as shown when both of the following conditions are met:

- the vehicle is driven the set distance and the ignition switch is turned OFF.
- the ignition key is turned ON the next time the vehicle will be driven.

To return to the previous display after the “MAINTENANCE NOTICE” screen is displayed, push the “BACK” button.

The “MAINTENANCE NOTICE” screen displays each time the key is turned ON until one of the following conditions are met:

- “RESET” is selected.
- “Display Maintenance Notification” is set OFF.
- the maintenance interval is set again.



SAA1321

Tire pressure information (if so equipped)

To view “TIRE PRESSURE” information, push the “TRIP” button repeatedly until the “MAINTENANCE” screen is displayed. Select “TIRE PRESSURE” using the joystick and push the “ENTER” button.

Pressure indication in ** psi on the screen indicates that the pressure is being measured. After a few driving trips, the pressure for each tire will be displayed randomly.

The order of tire pressure figures displayed on the screen does not correspond with the actual

Information Provided by:
DEALER E-PROCESS

order of the tire position.

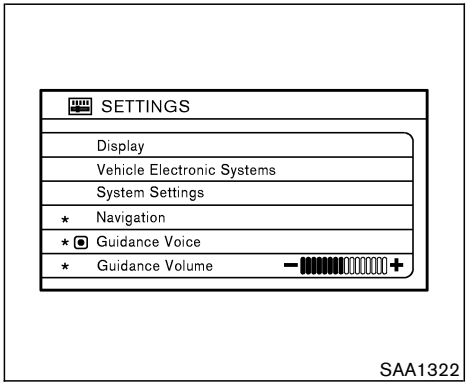
Tire pressure rises and falls depending on the heat caused by the vehicle's traveling condition and the temperature.

In case of low tire pressure, a message is displayed on the screen:

FLAT TIRE — low tire air pressure.

WARNING

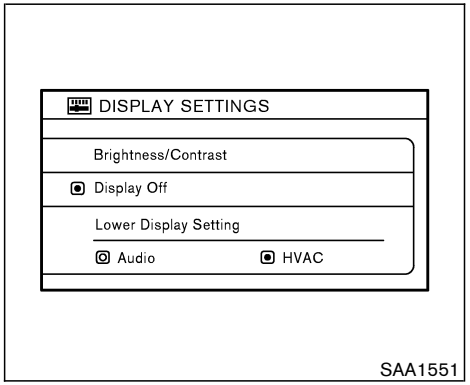
- **When a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute and remain on after the 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**



* — Refer to the separate Navigation System Owner's Manual.

HOW TO USE THE "SETTING" BUTTON

The SETTINGS screen will appear when the "SETTING" button is pushed.



"Display" settings

The DISPLAY SETTINGS screen will appear when selecting the "Display" key and pushing the "ENTER" button.

Brightness/Contrast:

To adjust the brightness and contrast of the screen, select the "Brightness/Contrast" key and push the "ENTER" button. Then you can adjust the brightness to Darker or Brighter, the contrast to Lower or Higher using the joystick.

Information Provided by:
DEALER E-PROCESS

Display Off:

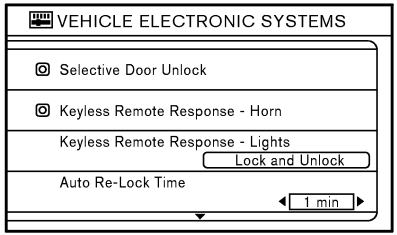
To turn off the screen, push the “SETTING” button and select the “Display” key and “Display Off” key. The indicator of the “Display Off” will turn on. When any mode button is pushed with the screen off, the screen turns on for further operation. The screen will turn off automatically 5 seconds after the operation is finished on the map display in the Audio, HVAC (Heater and air conditioner).

To turn on the screen, push the “SETTING” button and select the “Display” key and “Display Off” key, then set the screen to on by pushing the “ENTER” button.

Setting Audio or HVAC display:

Choose the “Audio” or “HVAC” (Heater and air conditioner) key to be displayed at the bottom, by using the joystick. The audio or HVAC (heater, air conditioner) setting condition will normally appear on the screen.

To return to the setting screen, push the “SETTING” button or “BACK” button.



SAA1324

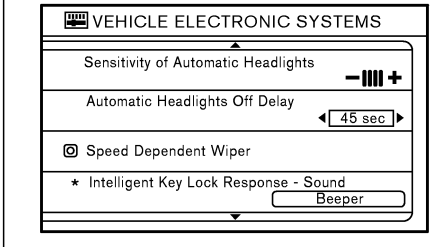
Vehicle electronic systems

The VEHICLE ELECTRONIC SYSTEMS screen will appear when selecting the “Vehicle Electronic Systems” key with the joystick and pushing the “ENTER” button.

You can set the various electronic systems operating conditions.

To set an operating condition, select the applicable item using the joystick, and push the “ENTER” button.

The indicator light alternately turns on and off each time the “ENTER” button is pushed.
Indicator light is illuminated. — ON



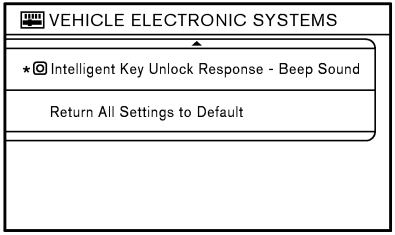
SAA1552

Indicator light is not illuminated. — OFF

Selective door unlock:

This key can switch the unlock doors of the 1st unlocking operation as follows:

ON (Only the driver side door) ←→ OFF (All the doors)



Keyless Remote Response — Horn*:

This key changes the horn chirp mode that occurs when pushing the LOCK button on the keyfob or the Intelligent Key.

Keyless Remote Response — Lights*:

This key changes the hazard indicator flash mode that occurs when pushing the LOCK or UNLOCK button on the keyfob or the Intelligent Key.

*** Even if you change the horn chirp or the hazard flash with the keyfob or the Intelligent Key, the change may not be reflected in the display. Use the keyfob or the Intelligent Key to return to the previous mode.**

Auto Re-Lock Time:

The length of the auto door re-lock time can be set. Select the “Auto Re-Lock Time” key, then move the joystick and push the ENTER button to adjust the time.

Sensitivity of Automatic Headlights:

Automatic light illumination can be set as desired.

Select the “Sensitivity of Automatic Headlights” key, then move the joystick to the left (lower) or right (higher).

Automatic Headlights Off Delay:

You can control how long it takes the automatic turn off timer to extinguish the headlights in the AUTO position.

Select the “Automatic Headlights Off Delay” key, then move the joystick to the left or right to adjust the timer.

Speed Dependent Wiper:

When this item is turned to on, the wiper interval is adjusted automatically according to the vehicle speed.

Intelligent Key Lock Response — Sound (if so equipped):

The sound pattern of the Intelligent request switch operation can be set as desired. Select the “Intelligent Key lock response — Sound” key, then push the ENTER button to change the sound pattern.

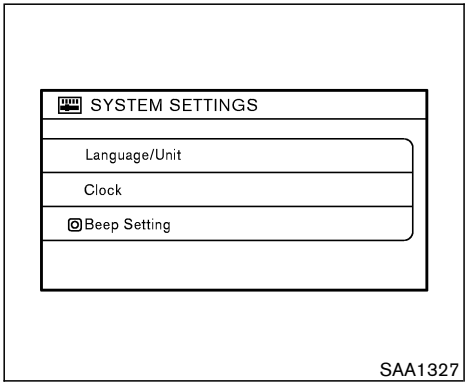
Intelligent Key Unlock Response — Beep Sound (if so equipped):

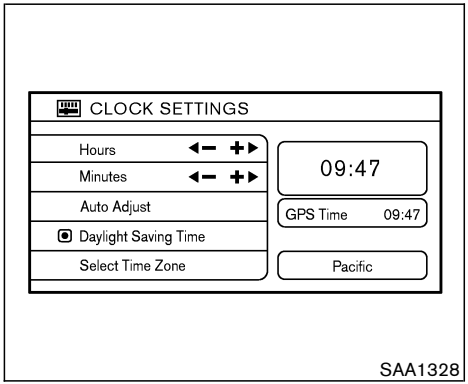
The beep sounds when unlocking door with the Intelligent request switch can be turned on or off.

Return All Settings to Default:

When this key is selected and turned on using the “ENTER” button, all settings made by VEHICLE ELECTRONICS will return to the initial conditions.

Information Provided by:
DEALER E-PROCESS





System settings

Language/Unit:

The LANGUAGE/UNIT screen will appear when selecting the “Language/Unit” key and pushing the “ENTER” button.

Language: English or French

Unit: US — Mile, °F, MPG
Metric — km, °C, L/100 km

You can select the language and unit using the joystick and “ENTER” button.

Clock:

Adjusting the time

Select the “Hours” or “Minutes” key and move the joystick to the right or left to adjust the time.

The time will change step by step.

After completion of the setting, push the “BACK” button.

Setting daylight saving time

Turn ON or OFF daylight saving time.

Every time the “Daylight Saving Time” key is selected, the light turns ON and OFF alternately.

ON: The displayed time advances by one hour.

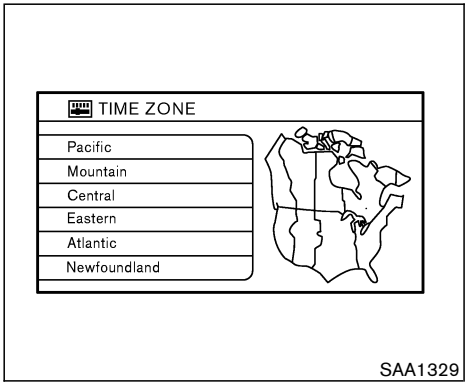
OFF: The current time is displayed.

Adjusting the time to the GPS

Select the “Auto Adjust” key.

The time will be reset to the GPS time.

Information Provided by:
DEALER E-PROCESS



Selecting the time zone

1. Select the “Select Time Zone” key.

The TIME ZONE screen will appear.

2. Select one of the following zones depending on the current location.

- “Pacific” zone
- “Mountain” zone
- “Central” zone
- “Eastern” zone
- “Atlantic” zone
- “Newfoundland” zone

After selection, the CLOCK SETTINGS screen will appear.

The GPS time (manual time) corresponding to the selected zone will be displayed.

“Pacific” zone has been set as the initial (default) setting.

Beep setting:

When Beep setting is on (indicator light on), a beep will sound if any audio button is pushed.

“DAY/NIGHT” BUTTON

Pushing the “DAY/NIGHT” button will change the display to the DAY or NIGHT display. Then, adjust the brightness moving the joystick right or left.

If no operation is done within 10 seconds, or if the “BACK” button is pushed, the display will return to the previous display.

Pushing the “DAY/NIGHT” button for more than approximately 2 seconds will turn the display off and on.

REARVIEW MONITOR (if so equipped)

When the selector lever is shifted into the R (Reverse) position, the monitor display shows view to the rear of the vehicle.

The system is designed as an aid to the driver in detecting large stationary objects to help avoid damaging the vehicle. The system will not detect small objects below the bumper and may not detect objects close to the bumper or on the ground.

WARNING

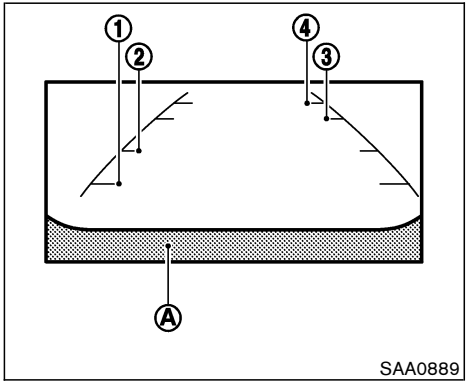
- **The rear view camera is a convenience but it is not a substitute for proper backing. Always turn and check that it is safe to do so before backing up. Always back up slowly.**
- **Objects viewed in the RearView Monitor differ from actual distance because a wide-angle lens is used. Objects in the RearView Monitor will appear visually opposite like ones viewed in the inside and outside mirrors.**
- **Make sure that the lift gate is securely closed when backing up.**

Information Provided by:
DEALER E-PROCESS

- **Underneath the bumper and the corner areas of the bumper cannot be viewed on the RearView Monitor because of its monitoring range limitation.**
- **Do not put anything on the rear view camera. The rear view camera is installed above the license plate.**
- **When washing the vehicle with high-pressure water, be sure not to spray it around the camera. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.**
- **Do not strike the camera. It is a precision instrument. Otherwise, it may malfunction or cause damage resulting in a fire or an electric shock.**

CAUTION

There is a plastic cover over the camera. Do not scratch the cover when cleaning dirt or snow from it.



SAA0889

HOW TO READ THE DISPLAYED LINES

Lines which indicate the vehicle clearance and distances to objects with reference to the bumper line (A) are displayed on the monitor.

They are indicated as reference distances to objects. Displayed lines indicate distances 1.5 feet (red) (1), 3 feet (yellow) (2), 7 feet (green) (3) and 10 feet (green) (4) from the lower part of the bumper line (A).

The vehicle clearance lines are wider than the actual clearance.

REARVIEW MONITOR SETTING

WARNING

Do not adjust the Brightness, Contrast, Tint and Color of the RearView Monitor while the vehicle is moving. Make sure the parking brake is firmly applied and the engine is not running.

To adjust the Brightness, Contrast, Tint and Color of the RearView Monitor, push the “SETTING” button with the RearView Monitor on, select the item key and adjust the level using the joystick.

OPERATING TIPS

- When the selector lever is shifted to R, the monitor screen automatically changes to the RearView Monitor mode. However, the radio can be heard.
- It may take some time until the RearView Monitor is displayed after the selector lever has been shifted to R. Objects may be distorted momentarily until the RearView Monitor screen is displayed completely. When the selector lever is returned to a position other than R, it may take some time until the screen

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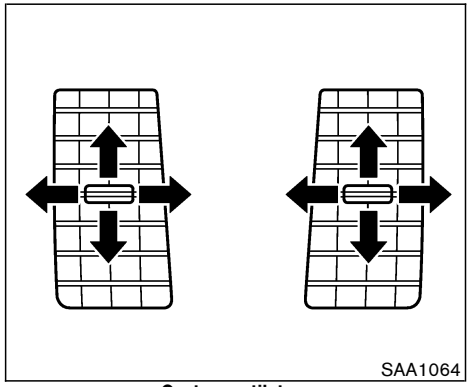
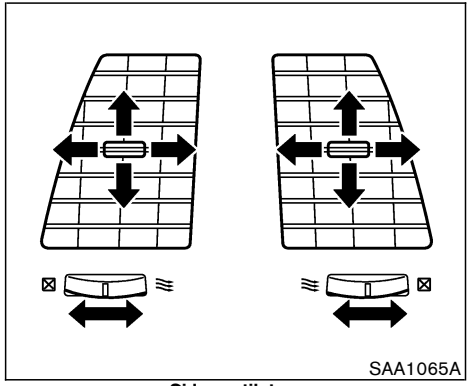
changes. Objects on the screen may be distorted until they are completely displayed.

- When the temperature is extremely high or low, the screen may not clearly display objects. This is not a malfunction.
- When strong light directly enters the camera, objects may not be displayed clearly.
- Vertical lines may be seen in objects on the screen. This is due to strong reflected light from the bumper. This is not a malfunction.
- The screen may flicker under fluorescent light. This is not a malfunction.
- The colors of objects on the RearView Monitor may differ somewhat from those of the actual object.
- When the contrast of objects is low at night, pushing the “ENTER” button may not change the brightness.
- Objects on the monitor may not be clear in a dark place or at night.
- If dirt, rain or snow attaches to the camera, the RearView Monitor may not clearly display objects. Clean the camera.
- Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration. To clean the camera, wipe with a cloth dampened with diluted mild cleaning agent and then wipe with a dry cloth.
- Do not damage the camera as the monitor screen may be adversely affected.
- Do not use body wax on the camera window. Wipe off any wax with a clean cloth dampened with mild detergent diluted with water.



Center ventilators



Side ventilators

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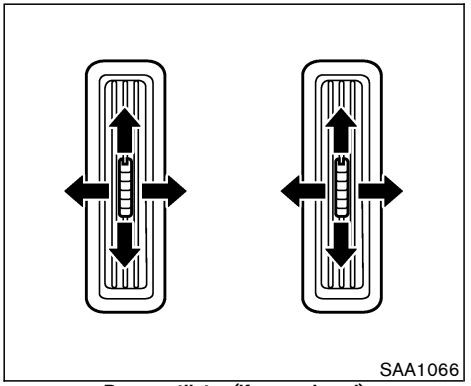

Rear ventilator (if so equipped)

Open or close, and/or adjust the air flow direction of ventilators.

: This symbol indicates that the vents are closed when the vent switch is moved to the left.

: This symbol indicates that the vents are open when the vent switch is moved to the right.

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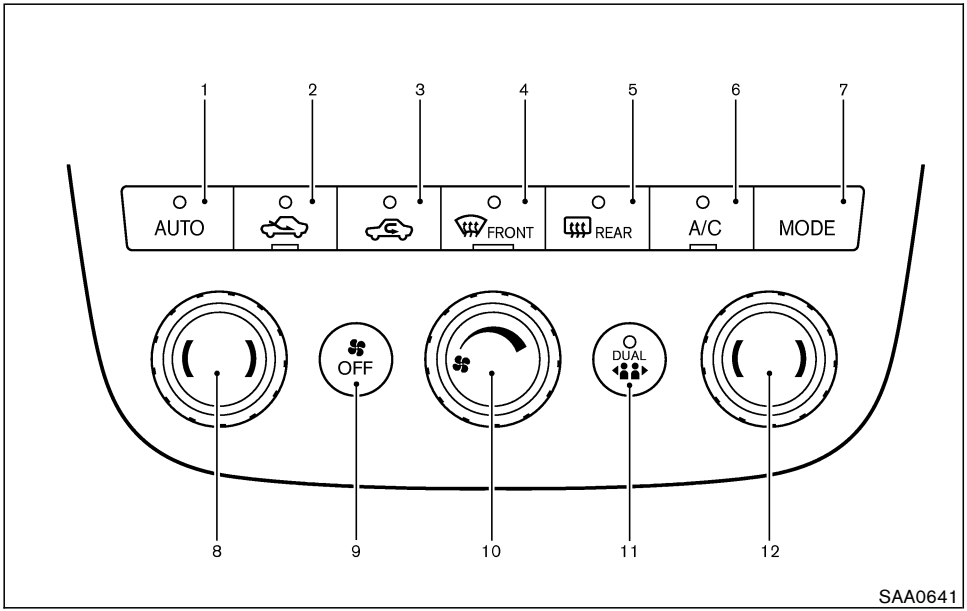
HEATER AND AIR CONDITIONER (Automatic)



1. “**AUTO**” climate control ON button
2. “ ” fresh air button
3. “ ” air recirculation button
4. “ ” front defroster button
5. “ ” rear window defroster switch; refer to the “2. Instrument and controls” section.
6. “**A/C**” air conditioner ON/OFF button
7. “**MODE**” manual air flow control button
8. Temperature control knob (driver only, or driver and passenger)
9. “**OFF**” button for climate control system
10. Fan speed control knob
11. “**DUAL**” passenger side temperature control ON/OFF button
12. Temperature control knob (passenger side)

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WARNING

- **The air conditioner cooling function operates only when the engine is running.**
- **On hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals. Do not leave children or adults who would normally require the assistance of others in your vehicle. Unattended pets should also not be left alone.**
- **Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.**

Start the engine and operate the controls to activate the air conditioner.

AUTOMATIC OPERATION

Cooling and/or dehumidified heating (AUTO)

This mode may be normally used all year round as the system automatically works to keep a constant temperature. Air flow distribution and fan speed are also controlled automatically.

1. Push the AUTO button on. (AUTO will be displayed.)
2. Turn the temperature set dial to the left or right to set the desired temperature.

- Adjust the temperature set dial to about 75°F (24°C) for normal operation.
- The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.

3. You can individually set driver and front passenger side temperature using each temperature control knob. When the DUAL button is pushed or passenger side temperature control knob is turned, the DUAL indicator will come on. To turn off the passenger side temperature control, push the DUAL button.

A visible mist may be seen coming from the ventilators in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.

Heating (A/C OFF)

The air conditioner does not activate. When you need to heat only, use this mode.

1. Push the A/C button. (A/C OFF will be displayed and A/C indicator will turn off.)
2. Turn the temperature set dial to the left or right to set the desired temperature.

- The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.
- Do not set the temperature lower than the outside air temperature. Otherwise the system may not work properly.
- Not recommended if windows fog up.

Dehumidified defrosting or defogging

1. Push the FRONT defroster button on. (The indicator light on the button will come on.)
2. Turn the temperature set dial to the left or right to set the desired temperature.

- To quickly remove ice from the outside of the windows, turn the fan speed control knob to

right and set to the maximum position.

- As soon as possible after the windshield is clean, push the AUTO button to return to the auto mode.
- When the front defroster button is pushed, the air conditioner will automatically be turned on at outside temperatures above 23°F (−5°C) to defog the windshield, and the air recirculate mode will automatically be turned off.

  Outside air is drawn into the passenger compartment to improve the defogging performance.

MANUAL OPERATION

Fan speed control

Turn the fan control button to manually control the fan speed.

Push the AUTO button to return to automatic control of the fan speed.

Air recirculation

Push the air recirculation button to recirculate interior air inside the vehicle. The indicator light on the button will come on.

The air recirculation cannot be activated when the air conditioner is in the front defrosting mode .

Fresh air

Push the button to draw outside air into the passenger compartment. The indicator light on the button will come on.

Automatic intake air control

In the AUTO mode, the intake air will be controlled automatically. To manually control the intake air, push the air recirculate or fresh air button. To return to the automatic control mode, push the indicator-illuminated button for about 2 seconds. The indicator lights (both air recirculate and fresh air buttons) will flash twice, and then the intake air will be controlled automatically.

Air flow control

Pushing the MODE manual air flow control button selects the air outlet to:

- : Air flows from center and side ventilators.
- : Air flows from center and side ventilators and foot outlets.
- : Air flows from foot outlets and side ventilators.
- : Air flows from defroster, foot outlets and side ventilators.

To turn the system off

Push the OFF button.

OPERATING TIPS

When the engine coolant temperature and outside air temperature are low, the air flow from the foot outlets may not operate for a maximum of 150 seconds. However, this is not a malfunction. After the coolant temperature warms up, the air flow from the foot outlets will operate normally.

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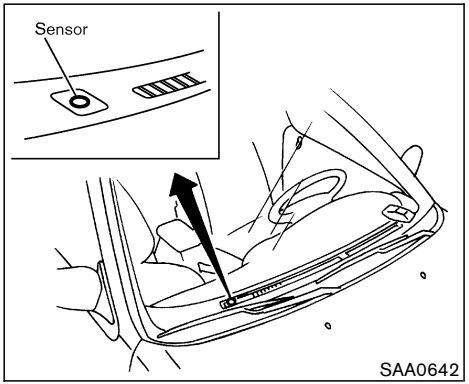

The sensor on the instrument panel helps maintain a constant temperature; do not put anything on or around this sensor.

IN-CABIN MICROFILTER

The air conditioning system is equipped with an in-cabin microfilter which collects dirt, pollen, dust, etc. To make sure the air conditioner heats, defogs, and ventilates efficiently, replace the filter according to the specified maintenance intervals listed in your Service and Maintenance Guide. To replace the filter, contact a NISSAN dealer.

The filter should be replaced if the air flow decreases significantly or if windows fog up easily when operating the heater or air conditioning system.

SERVICING AIR CONDITIONER

The air conditioning system in your NISSAN vehicle is charged with a refrigerant designed with the environment in mind. **This refrigerant will not harm the earth's ozone layer.** However, special charging equipment and lubricants are required when servicing your NISSAN air conditioner. Using improper refrigerants or lubricants will cause severe damage to your air conditioning system. See "Capacities and recommended fuel/lubricants" in the "9. Technical and consumer information" section for air conditioning system refrigerant and lubricant recommendations.

A NISSAN dealer will be able to service your environmentally friendly air conditioning system.

WARNING

The air conditioner system contains refrigerant under high pressure. To avoid personal injury, any air conditioner service should be done only by an experienced technician with proper equipment.

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Turn the ignition switch to ACC or ON and push the power on switch to turn on the radio. If you listen to the radio with the engine not running, the key should be turned to the ACC position.

Radio reception is affected by station signal strength, distance from radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality normally are caused by these external influences.

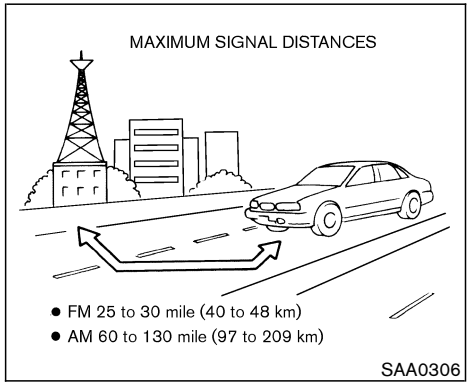
Using a cellular phone in or near the vehicle may influence radio reception quality.

Radio reception

Your radio system is equipped with state-of-the-art electronic circuits to enhance radio reception. These circuits are designed to extend reception range, and to enhance the quality of that reception.

However there are some general characteristics of FM, AM and satellite radio signals that can affect radio reception quality in a moving vehicle, even when the finest equipment is used. These characteristics are completely normal in a given reception area, and do not indicate any malfunction in your radio system.

Remember that a moving vehicle is not the ideal place to listen to a radio. Because of the movement, reception conditions will constantly change. Buildings, terrain, signal distance and interference from other vehicles can work against ideal reception. Described below are some of the factors that can affect your radio reception.



FM RADIO RECEPTION

Range: FM range is normally limited to 25 to 30 miles (40 to 48 km), with monaural (single channel) FM having slightly more range than stereo FM. External influences may sometimes interfere with FM station reception even if the FM station is within 25 miles (40 km). The strength of the FM signal is directly related to the distance between the transmitter and receiver. FM signals follow a line-of-sight path, exhibiting many of the same characteristics as light. For example they will reflect off objects.

Fade and drift: As your vehicle moves away from

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a station transmitter, the signals will tend to fade and/or drift.

Static and flutter: During signal interference from buildings, large hills or due to antenna position, usually in conjunction with increased distance from the station transmitter, static or flutter can be heard. This can be reduced by adjusting the treble control counterclockwise to reduce treble response.

Multipath reception: Because of the reflective characteristics of FM signals, direct and reflected signals reach the receiver at the same time. The signals may cancel each other, resulting in momentary flutter or loss of sound.

AM RADIO RECEPTION

AM signals, because of their low frequency, can bend around objects and skip along the ground. In addition, the signals can be bounced off the ionosphere and bent back to earth. Because of these characteristics, AM signals are also subject to interference as they travel from transmitter to receiver.

Fading: Occurs while the vehicle is passing through freeway underpasses or in areas with many tall buildings. It can also occur for several seconds during ionospheric turbulence even in areas where no obstacles exist.

Static: Caused by thunderstorms, electrical power lines, electric signs and even traffic lights.

SATELLITE RADIO RECEPTION

When the satellite radio is first installed or the battery has been replaced, the satellite radio may not work properly. This is not a malfunction. Wait more than 10 minutes with satellite radio ON for satellite radio to receive all of the necessary data.

The satellite radio mode will be skipped or “NO SAT” will be displayed unless the optional satellite receiver and antenna are installed, and an XM® or SIRIUS™ satellite radio service subscription is active.

Satellite radio performance may be effected if cargo carried on the roof rack blocks the satellite radio signal.

If possible, do not put cargo over the satellite radio antenna.

AUDIO OPERATION PRECAUTIONS

Cassette player

⚠ CAUTION

Do not force the cassette tape into the tape door. This could damage the player.

- **To maintain good quality sound, NISSAN recommends using cassette tapes of 60 minutes or shorter in length.**
- **Cassette tapes should be removed from the player when not in use. Store cassettes in their protective cases and away from direct sunlight, heat, dust, moisture and magnetic sources.**
- **Direct sunlight can cause the cassette to become deformed. The use of deformed cassettes may cause the cassette to jam in the player.**
- **Do not use cassettes with labels which are peeling and loose. If used, the label could jam in the player.**
- **If a cassette has loose tape, insert a pencil through one of the cassette hubs and rewind the tape firmly around the hubs. Loose tape may cause tape jamming and wavering sound quality.**
- **Over a period of time, the playback head, capstan and pinch roller may collect a tape coating residue as the tape is played. This residue accumulation can cause weak or wavering sound, and**

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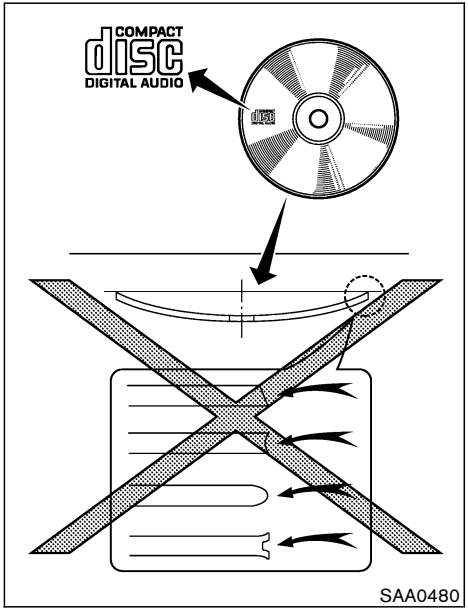
should be removed periodically with a head cleaning tape. If the residue is not removed periodically, the player may need to be disassembled for cleaning.



Compact Disc (CD) player

CAUTION

- **Do not force a compact disc into the CD insert slot. This could damage the CD and/or CD changer/player.**
- **Trying to load a CD with the CD door closed could damage the CD and/or CD changer.**
- **Only use high quality 4.7 in (12 cm) round discs that have the "COMPACT disc DIGITAL AUDIO" logo on the disc or packaging.**
- **During cold weather or rainy days, the player may malfunction due to the humidity. If this occurs, remove the CD and dehumidify or ventilate the player completely.**
- **The player may skip while driving on rough roads.**
- **The CD player sometimes cannot function when the compartment temperature is extremely high. Decrease the temperature before use.**
- **Do not expose the CD to direct sunlight.**
- **CDs that are of poor quality, dirty, scratched, covered with fingerprints, or that have pin holes may not work properly.**

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- **The following CDs may not work properly:**
  - **Copy control compact discs (CCCD)**
  - **Recordable compact discs (CD-R)**
  - **Rewritable compact discs (CD-RW)**
- **Do not use the following CDs as they may cause the CD player to malfunction.**
  - **3.1 in (8 cm) discs with an adapter**
  - **CDs that are not round**
  - **CDs with a paper label**
  - **CDs that are warped, scratched, or have abnormal edges**
- **CDs with MP3 or WMA format cannot be written by this audio system.**
- **If the CD cannot be played, one of the following messages will be displayed.**

  CHECK DISC:
  - **Confirm that the CD is inserted correctly (the label side is facing up, etc.).**
  - **Confirm that the CD is not bent or warped and it is free of scratches.**

  PUSH EJECT:

  This is an error due to the temperature inside the player is too high. Remove the CD by pushing the EJECT button, and after a short time reinsert the CD. The CD can be played when the temperature of the player returns to normal.

  UNPLAYABLE:

  The file is unplayable in this audio system (only MP3 or WMA CD).

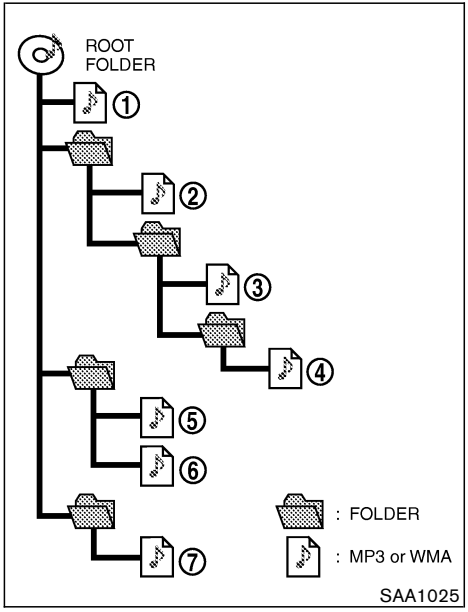
Compact Disc (CD) with MP3 or WMA

Explanation of terms:

- MP3 — MP3 is short for Moving Pictures Experts Group Audio Layer 3. MP3 is the most well known compressed digital audio file format. This format allows for near “CD quality” sound, but at a fraction of the size of normal audio files. MP3 conversion of an audio track from CD can reduce the file size by approximately 10:1 ratio (Sampling: 44.1 kHz, Bit rate: 128 kbps) with virtually no perceptible loss in quality. MP3 compression removes the redundant and irrelevant parts of a sound signal that the human ear doesn’t hear.
- WMA — Windows Media Audio (WMA) is a compressed audio format created by Microsoft as an alternative to MP3. The WMA codec offers greater file compression than the MP3 codec, enabling storage of more digital audio tracks in the same amount of space when compared to MP3s at the same level of quality.
- Bit rate — Bit rate denotes the number of bits per second used by a digital music files. The size and quality of a compressed digital audio file is determined by the bit rate used when encoding the file.
- Sampling frequency — The rate at which the samples of a signal are converted from analog to digital (A/D conversion) per second.
- Multisession — Multisession is one of the methods for writing data to media. Writing data once to the media is called a single session, and writing more than once is called a multisession.
- ID3/WMA Tag — The ID3/WMA tag is the part of the encoded MP3 or WMA file that contains information about the digital music file such as song title, artist, encoding bit rate, track time duration, etc. ID3 tag information is displayed on the Artist/Track title line on the display.

* Windows® and Windows Media® are registered trademarks and trademarks in the

United States of America and other countries of Microsoft Corporation of the USA.



Playback order:

Music playback order of the CD with MP3 or WMA is as illustrated above.

- The folder names of folders not containing MP3/WMA files are not shown in the display.
- If there is a file in the top level of the disc, “Root Folder” is displayed.
- The playback order is the order in which the files were written by the writing software, so the files might not play in the desired order.

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Specification chart:

Supported media			CD, CD-R, CD-RW
Supported file systems			ISO9660 LEVEL1, ISO9660 LEVEL2, Romeo, Joliet * ISO9660 Level 3 (packet writing) is not supported.
Supported versions*1	MP3	Version	MPEG1, MPEG2, MPEG2.5
		Sampling frequency	8 kHz - 48 kHz
		Bit rate	8 kbps - 320 kbps, VBR
	WMA	Version	WMA7, WMA8, WMA9
		Sampling frequency	32 kHz - 48 kHz
		Bit rate	48 kbps - 192 kbps, VBR
Tag information (Song title and Artist name)			ID3 tag VER1.0, VER1.1, VER2.2, VER2.3 (MP3 only)
Folder levels			Folder levels: 8, Folders: 255 (including root folder), Files: 512 (Max. 255 files for one folder)
Text character number limitation			128 characters
Displayable character codes*2			01: ASCII, 02: ISO-8859-1, 03: UNICODE (UTF-16 BOM Big Endian), 04: UNICODE (UTF-16 Non-BOM Big Endian), 05: UNICODE (UTF-8), 06: UNICODE (Non-UTF-16 BOM Little Endian)

*1 Files created with a combination of 48 kHz sampling frequency and 64 kbps bit rate cannot be played.

*2 Available codes depend on what kind of media, versions and information are going to be displayed.

Troubleshooting guide:

Symptom	Cause and Countermeasure
Cannot play	Check if the disc was inserted correctly.
	Check if the disc is scratched or dirty.
	Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a temperature increase error, the CD player will play correctly after it returns to the normal temperature.
	If there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD, only the music CD files (CD-DA data) will be played.
	Files with extensions other than ".MP3", ".WMA", ".mp3" or ".wma" cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications.
	Check if the disc or the file is generated in an irregular format. This may occur depending on the variation or the setting of MP3/WMA writing applications or other text editing applications.
	Check if the finalization process, such as session close and disc close, is done for the disc.
	Check if the disc is protected by copyright.
Poor sound quality	Check if the disc is scratched or dirty.
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the MP3/WMA disc, or if it is a multisession disc, some time may be required before the music starts playing.
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width, etc., might not match the specifications. Try using the slowest writing speed.
Skipping with high bit rate files	Skipping may occur with large quantities of data, such as for high bit rate data.
Move immediately to the next song when playing.	When a non-MP3/WMA file has been given an extension of ".MP3", ".WMA", ".mp3" or ".wma", or when play is prohibited by copyright protection, there will be approximately 5 seconds of no sound and then the player will skip to the next song.
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the writing software, so the files might not play in the desired order.

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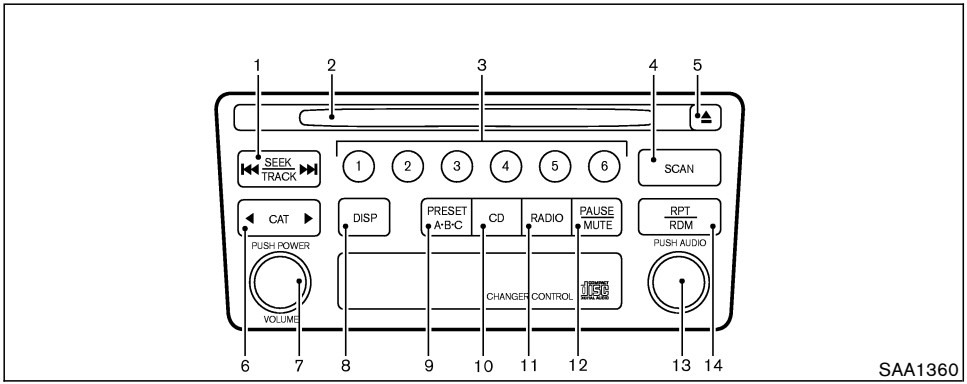

1. SEEK/TRACK button
2. CD slot
3. Station and preset (FM/AM/SAT)
4. SCAN button
5. CD EJECT button
6. CAT button
7. POWER button/VOLUME control knob
8. DISP (display) button
9. PRESET A·B·C button
10. CD button
11. RADIO button
12. PAUSE/MUTE button
13. TUNE up/down, TRACK up/down and AUDIO button
14. RPT (repeat)/RDM (random) button

FM-AM-SAT RADIO WITH CD PLAYER

For all operation precautions, see “Audio operation precautions” earlier in this section.

No satellite radio reception is available when the SAT band option is selected unless optional satellite receiver and antenna are installed, and an XM® or SIRIUS™ satellite radio service subscription is active.

It may take some time to receive the activation signal after subscribing to the XM® or SIRIUS™ satellite radio provider. After receiving the activation signal, an available channel list will be automatically updated in the radio. For XM®, turn the ignition switch from the LOCK to ACC position to update the channel list.

Satellite radio is not available in Alaska, Hawaii and Guam.

Audio main operation

POWER/Volume control:

Turn the ignition switch to ACC or ON, and then push the POWER button while the system is off to call up the mode (radio or CD) which was playing immediately before the system was turned off. When no CD is loaded, the radio will come on. While the system is on, pushing the POWER button turns the system off.

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To turn the radio off, push the POWER button.

Turn the Volume control knob to adjust the volume.

AUDIO button/knob:

Push the AUDIO button to change the selecting mode as follows.

BASS → TREBLE → FADE → BALANCE → BASS

To adjust Bass, Treble, Fader and Balance, push the AUDIO button until the desired mode BASS, TREBLE, FADE or BALANCE appears in the display. Turn the AUDIO knob to adjust Bass and Treble to the desired level. Use the Tuning knob also to adjust Fader or Balance modes. Fader adjusts the sound level between the front and rear speakers and Balance adjusts the sound between the right and left speakers.

After 10 seconds, the radio or CD display reappears. Once the sound quality is set to the desired level, push the AUDIO button repeatedly until the radio or CD display appears.

Display text:

To indicate the text, push the AUDIO knob during CD or satellite radio playing.

BASS → TREBLE → FADE → BALANCE → Display mode

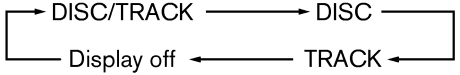
To change the indicated text in display mode, turn the tuning knob within 2 seconds.

DISP **Display select:**

Display CD text

To indicate the CD text, push the DISP button while the CD is playing.

The text will change as follows:



Display FM text

To indicate the FM PS name, push the DISP button while the FM radio is playing.

The name will change as follows:

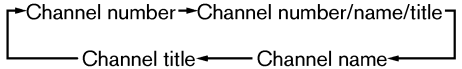
ON → OFF → ON

When no data is available, “NO TEXT” will appear.

Display satellite radio text

To indicate the satellite radio text, push the DISP button while the satellite radio is playing.

The text will change as follows:



When no data is available, “——” will appear.

FM-AM-SAT radio operation

RADIO **FM/AM/SAT radio select:**

The satellite radio mode will be skipped unless the optional satellite receiver and antenna are installed, and an XM® or SIRIUS™ satellite radio service subscription is active.

Pushing the RADIO button will change the band as follows:

AM → FM → SAT (Satellite)

When the RADIO button is pushed while the ignition switch is in the ACC or ON, the radio will come on at the station last played.

The last station played will also come on when the power knob is turned to ON.

If a compact disc is playing when the RADIO button is pushed, the compact disc will automatically be turned off and the last radio station played will come on.

The FM stereo indicator ST will glow during FM stereo reception. When the stereo broadcast signal is weak, the radio will automatically

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change from stereo to monaural reception.

TUNE (Tuning):

To tune the radio, turn the TUNE knob to the right or left.

Use these buttons for manual tuning.

▶▶| |◀◀ SEEK tuning:

Push the SEEK button ▶▶| or |◀◀ for less than 0.5 second to tune from high to low or low to high frequencies and stop at the next broadcasting station (channel).

Push the SEEK button ▶▶| or |◀◀ for more than 0.5 second, to fast tune from high to low or low to high frequencies.

SCAN SCAN tuning:

Push the SCAN tuning button to tune from low to high frequencies and stop at each broadcasting station (channel) for 5 seconds. Pushing the button again during this 5 seconds period will stop SCAN tuning and the radio will remain tuned to that station (channel).

If the SCAN tuning button is not pushed within 5 seconds, SCAN tuning moves to the next station (channel).

Station memory operations:

Eighteen (18) stations can be set for the FM, AM and SAT band to the A, B and C preset button.

1. Choose preset channel A, B or C using the preset select button.
2. Tune to the desired station using the SEEK, SCAN or TUNE button and keep pushing any of the desired station memory buttons (1 to 6) until a beep sound is heard. (The radio mutes when the select button is pushed.)
3. The channel indicator will then come on and the sound will resume. Memorizing is now complete.
4. Other buttons can be set in the same manner.

If the battery cable is disconnected, or if the fuse blows, the radio memory will be erased. In that case, reset the desired stations.

Radio data system (RDS):

RDS stands for Radio Data System, and is a data information service transmitted by some radio stations on the FM band (not AM band) and/or SATELLITE band encoded within a regular radio broadcast. Currently, most RDS stations are in large cities, but many stations are now considering broadcasting RDS data.

RDS can display:

- Station call sign, such as “WHFR 98.3”.
- Station name, such as “The Groove”.
- Music or programming type such as “Classical”, “Country”, or “Rock”.
- Traffic reports about delays or construction.

If the station broadcasts RDS information, the RDS icon is displayed.

◂ CAT ▸ Category (CAT) button:

When the CAT button is pushed for less than 0.5 second, the AM/FM (Satellite) radio frequencies (Category) will move to the next/previous step (Category). Push and hold the button for more than 0.5 second to move quickly through the steps (Categories).

Compact disc (CD) player operation

Turn the ignition switch to the ACC or ON position and insert the compact disc into the slot with the label side facing up. The compact disc will be guided automatically into the slot and start playing.

After loading the disc, the number of tracks on the disc and the play time will appear on the display.

If the radio is already operating, it will automatically turn off and the compact disc will play.

If the system has been turned off while the compact disc was playing, pushing the POWER/VOL control knob will start the compact disc.

3.1 inches (8 cm) diameter discs can be used without an adapter.

CD PLAY:

When the CD button is pushed with the system off and the compact disc loaded, the system will turn on and the compact disc will start to play.

When the CD button is pushed with the compact disc loaded with the radio playing, the tape or radio will automatically be turned off and the compact disc will start to play.

FF (Fast Forward), REW (Rewind), APS (Automatic Program Search) FF, APS REW:

When the ▶▶| (fast forward) or |◀◀ (rewind) button is pushed and hold while the compact disc is being played, the compact disc will play while fast forwarding or rewinding. When the button is released, the compact disc will return to normal play speed.

When the ▶▶| button is pushed for less than 0.5 second while the compact disc is being played, the program next to the present one will start to play from its beginning. Push several times to skip through programs. The compact disc will advance the number of times the button is pushed. (When the last program on the compact disc is skipped through, the first program will be played.) When the |◀◀ button is pushed for less than 0.5 second, the program being played returns to its beginning. Push several times to skip back through programs. The compact disc will go back the number of times the button is pushed.

SCAN:

When the SCAN button is pushed while the CD is playing, each track will play for about 10 seconds.

To stop scanning, push the SCAN button again.

RPT (Repeat)/RDM (Random):

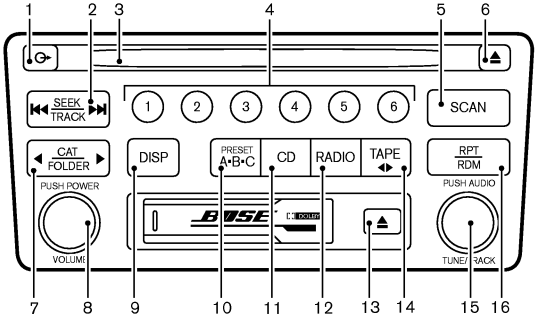
When the RPT/RDM button is pushed while the compact disc is played, the play pattern can be changed as follows:

CD EJECT:

When the CD EJECT button is pushed with the compact disc loaded, the compact disc will be ejected.

When this button is pushed while the compact disc is being played, the compact disc will come out and the system will turn off.

If the compact disc comes out and is not removed, it will be pulled back into the slot to protect it.



SAA1315

1. CD LOAD button
2. SEEK/TRACK button
3. CD slot
4. Station and preset (FM/AM/SAT)/CD insert/eject or CD play select button
5. SCAN button
6. CD EJECT button
7. CAT/FOLDER button
8. POWER button/VOLUME control knob
9. DISP (display) button
10. PRESET A·B·C button
11. CD button
12. RADIO button
13. TAPE EJECT button
14. TAPE button
15. TUNE up/down, TRACK up/down and AUDIO button
16. RPT (repeat)/RDM (random) button

FM-AM-SAT RADIO WITH CASSETTE PLAYER AND CD CHANGER

For all operation precautions, see “Audio operation precautions” earlier in this section.

No satellite radio reception is available when the SAT band option is selected unless optional satellite receiver and antenna are installed, and an XM® or SIRIUS™ satellite radio service subscription is active.

It may take some time to receive the activation signal after subscribing to the XM® or SIRIUS™ satellite radio provider. After receiving the activation signal, an available channel list will be automatically updated in the radio. For XM®, turn the ignition switch from the LOCK to ACC position to update the channel list.

Satellite radio is not available in Alaska, Hawaii and Guam.

Audio main operation

The tape deck employs a permalloy head which allows for improved reproduction of high frequency ranges. Noise is also greatly reduced by the combined use of the Dolby NR (Noise Reduction) system. The auto loudness circuit enhances the low frequency range automatically

Information Provided by: DEALER E-PROCESS

in both radio reception and tape and CD playback.

POWER/Volume control:

Turn the ignition switch to ACC or ON, and then push the POWER button while the system is off to call up the mode (radio, tape or CD) which was playing immediately before the system was turned off. When no CD or tape is loaded, the radio will come on. While the system is on, pushing the POWER button turns the system off.

To turn the radio off, push the POWER button.

Turn the Volume control knob to adjust the volume.

This vehicle has **Speed Sensitive control Volume (SSV) for audio**. The audio volume changes as the driving speed changes.

AUDIO button/knob:

Push the AUDIO button to change the selecting mode as follows.

BASS → TREBLE → FADE → BALANCE → SSV → NR (when cassette playing)

To adjust Bass, Treble, Fader and Balance, push the AUDIO button until the desired mode BASS, TREBLE, FADE or BALANCE appears in the display. Turn the AUDIO knob to adjust Bass and Treble to the desired level. Use the Tuning knob also to adjust Fader or Balance modes. Fader adjusts the sound level between the front and rear speakers and Balance adjusts the sound between the right and left speakers.

To change the SSV mode to OFF, LOW, MID or HIGH, turn the Tuning knob to right or left.

To change the NR (Dolby) mode to OFF or ON, turn the Tuning knob to right or left while cassette tape is playing. When Dolby is ON, the display indicates the DD mark.

Dolby noise reduction is manufactured under license from Dolby Laboratories Licensing Corporation. Dolby NR and the double-D symbol " DD " are trademarks of Dolby Laboratories Licensing Corporation.

After 10 seconds, the radio, cassette tape or CD display reappears. Once the sound quality is set to the desired level, push the AUDIO button repeatedly until the radio, cassette tape or CD display appears.

Display text:

To indicate the text, push the AUDIO knob during CD or satellite radio playing.

BASS → TREBLE → FADE → BALANCE → SSV → Display mode

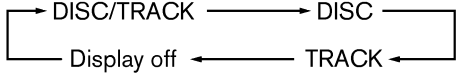
To change the indicated text in display mode, turn the tuning knob within 2 seconds.

DISP **Display select:**

Display CD text

To indicate the CD text, push the DISP button while the CD is playing.

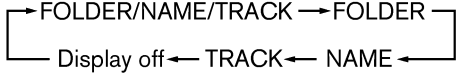
The text will change as follows:



Display MP3/WMA text

To indicate the MP3/WMA text, push the DISP button while the CD is playing.

The text will change as follows:



Display FM text

To indicate the FM PS name, push the DISP button while the FM radio is playing.

The name will change as follows:

ON → OFF → ON

When no data is available, "NO TEXT" will appear.

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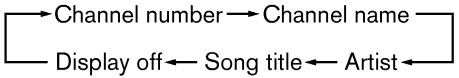
Display satellite radio text

To indicate the satellite radio text, push the DISP button while the satellite radio is playing.

The text will change as follows:



When no data is available, "——" will appear.

FM-AM-SAT radio operation

RADIO **FM/AM/SAT radio select:**

The satellite radio mode will be skipped unless the optional satellite receiver and antenna are installed, and an XM® or SIRIUS™ satellite radio service subscription is active.

Pushing the RADIO button will change the band as follows:

AM → FM → SAT (Satellite)

When the RADIO button is pushed while the ignition switch is in the ACC or ON, the radio will come on at the station last played.

The last station played will also come on when the power knob is turned to ON.

If a compact disc or tape is playing when the RADIO button is pushed, the compact disc or tape will automatically be turned off and the last radio station played will come on.

The FM stereo indicator ST will glow during FM stereo reception. When the stereo broadcast signal is weak, the radio will automatically change from stereo to monaural reception.

TUNE (Tuning):

To tune the radio, turn the TUNE knob to the right or left.

Use these buttons for manual tuning.

▶▶| |◀◀ SEEK tuning:

Push the SEEK button ▶▶| or |◀◀ for less than 0.5 second to tune from high to low or low to high frequencies and stop at the next broadcasting station (channel).

Push the SEEK button ▶▶| or |◀◀ for more than 0.5 second, to fast tune from high to low or low to high frequencies.

SCAN **SCAN tuning:**

Push the SCAN tuning button to tune from low to high frequencies and stop at each broadcasting station (channel) for 5 seconds. Pushing the button again during this 5 seconds period will stop SCAN tuning and the radio will remain tuned to that station (channel).

If the SCAN tuning button is not pushed within 5 seconds, SCAN tuning moves to the next station (channel).

Station memory operations:

Eighteen (18) stations can be set for the FM, AM and SAT band to the A, B and C preset button.

1. Choose preset channel A, B or C using the preset select button.
2. Tune to the desired station using the SEEK, SCAN or TUNE button and keep pushing any of the desired station memory buttons (1 to 6) until a beep sound is heard. (The radio mutes when the select button is pushed.)
3. The channel indicator will then come on and the sound will resume. Memorizing is now complete.
4. Other buttons can be set in the same manner.

If the battery cable is disconnected, or if the fuse blows, the radio memory will be erased. In that case, reset the desired stations.

Radio data system (RDS):

RDS stands for Radio Data System, and is a data information service transmitted by some radio stations on the FM band (not AM band) and/or SATELLITE band encoded within a regular radio broadcast. Currently, most RDS stations are in large cities, but many stations are

now considering broadcasting RDS data.

RDS can display:

- Station call sign, such as “WHFR 98.3”.
- Station name, such as “The Groove”.
- Music or programming type such as “Classical”, “Country”, or “Rock”.
- Traffic reports about delays or construction.

If the station broadcasts RDS information, the RDS icon is displayed.

CAT FOLDER **Category (CAT):**

When the CAT button is pushed for less than 0.5 second, the AM/FM (Satellite) radio frequencies (Category) will move to the next/previous step (Category). Push and hold the button for more than 0.5 second to move quickly through the steps (Categories).

Cassette tape player operation

Turn the ignition switch to ACC or ON, and then lightly insert the cassette tape into the tape door. The cassette tape will be automatically pulled into the player.

The radio or CD will turn off (if it is on) and the cassette tape will begin to play.

If the system is turned off by pushing the POWER button with the cassette tape still in the player, the tape will resume playing when the system is turned back on.

TAPE **PLAY:**

- When the TAPE button is pushed with the system turned off and a tape loaded, the system will come on and the tape will play.
- When the TAPE button is pushed with either the radio or compact disc turned on and the tape loaded, the compact disc or the radio will automatically be turned off and the tape will play.
- When the TAPE button is pushed with the TAPE playing, the tape will play the program recorded on the reverse side.

▶ ◀ **FF (Fast Forward), REW (Rewind):**

Push the ▶ (fast forward) button to fast forward the tape. To rewind the tape, push the ◀ (rewind) button. Either the FF or REW symbol illuminates on the display window. To stop the FF or REW function, push the ▶ (fast forward) or ◀ (rewind) again, or the TAPE button.

▶▶| |◀◀ **APS (Automatic Program Search) FF, APS REW:**

When the ▶▶| (APS FF) button is pushed while the tape is being played, the next program will start to play from the beginning. Push the ▶▶| (APS FF) button several times to skip through programs. The tape will advance the number of times the button is pushed (up to nine programs).

When the |◀◀ (APS REW) button is pushed once, the program being played starts over from the beginning. Push the |◀◀ (APS REW) button several times to skip back several selections. The tape will go back the number of times the button is pushed. Either the FF or REW symbol flashes on the display window while searching for the selection.

RPT RDM **REPEAT (RPT):**

When the RPT play button is pushed while the tape is played, the tape program play is repeated. To stop the repeat play, push the RPT play button again.

Metal or chrome tape usage:

The cassette player will be automatically set to high performance play when playing a metal or chrome cassette tape.

⏏ **TAPE EJECT:**

When this button is pushed with the tape loaded, the tape will be ejected.

When the tape is ejected while it is being played, the system will be turned off.

Compact disc (CD) changer operation

Turn the ignition switch to the ACC or ON position and insert the compact disc into the slot with the label side facing up. The compact disc will be guided automatically into the slot and start playing. To insert the disc, first push the LOAD button.

After loading the disc, the number of tracks on the disc and the play time will appear on the display.

If the radio or tape is already operating, it will automatically turn off and the compact disc will play.

If the system has been turned off while the compact disc was playing, pushing the POWER/VOL control knob will start the compact disc.

3.1 in (8 cm) diameter discs cannot be used (even with an adapter).

LOAD button:

To insert a CD in the CD changer, push the LOAD button for less than 1.5 seconds. Select the loading slot by pushing the CD insert select button (1 to 6), then insert the CD.

To insert 6 CDs to the CD changer, push the LOAD button for more than 1.5 seconds. The inserted slot numbers will illuminate on the display.

CD PLAY:

When the CD button is pushed with the system off and the compact disc loaded, the system will turn on and the compact disc will start to play.

When the CD button is pushed with the compact disc loaded with the tape or the radio playing, the tape or radio will automatically be turned off and the compact disc will start to play.

FF (Fast Forward), REW (Rewind), APS (Automatic Program Search) FF, APS REW:

When the ▶▶| (fast forward) or |◀◀ (rewind) button is pushed and hold while the compact disc is being played, the compact disc will play while fast forwarding or rewinding. When the button is released, the compact disc will return to normal play speed.

When the ▶▶| button is pushed for less than 0.5 second while the compact disc is being played, the program next to the present one will start to play from its beginning. Push several times to skip through programs. The compact disc will advance the number of times the button is pushed. (When the last program on the compact disc is skipped through, the first program will be played.) When the |◀◀ button is pushed for less than 1.5 seconds, the program being played returns to its beginning. Push several times to skip back through programs. The compact disc will go back the number of times the button is pushed.

You can also skip the program by turning the TRACK knob.

SCAN:

When the SCAN button is pushed while the CD is playing, each track will play for about 10 seconds.

To stop scanning, push the SCAN button again.

FOLDER FF, REW:

When the FOLDER button is pushed while the MP3/WMA CD is playing, the folder will forward (rewind) to the next (previous) folder.

CD PLAY button:

To change CD, push the CD play select button (1 to 6). You can select if the CD is inserted.

RPT (Repeat)/RDM (Random):

When the RPT/RDM button is pushed while the compact disc is played, the play pattern can be changed as follows:

OFF → 1 DISC RPT → 1 TRACK RPT
1 DISC RDM ← ALL DISC RDM ←

CD EJECT:

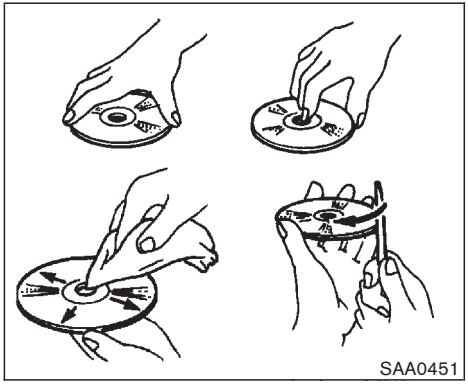
When the CD EJECT button is pushed with the compact disc loaded, the compact disc will be ejected.

To eject the selected discs by the EJECT button, push it for less than 1.5 seconds.

To eject all the discs, push the EJECT button for more than 1.5 seconds.

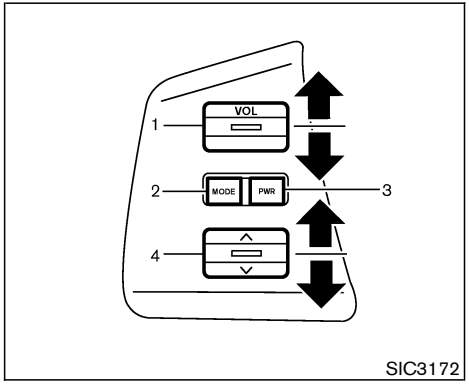
When this button is pushed while the compact disc is being played, the compact disc will come out and the system will turn off.

If the compact disc comes out and is not removed, it will be pulled back into the slot to protect it.


SAA0451

CD CARE AND CLEANING

- Handle a CD by its edges. Never touch the surface of the disc. Do not bend the disc.
- Always place the discs in the storage case when they are not being used.
- To clean a disc, wipe the surface from the center to the outer edge using a clean, soft cloth. Do not wipe the disc using a circular motion.
  Do not use a conventional record cleaner or alcohol intended for industrial use.
- A new disc may be rough on its inner and outer edges. Remove the rough edges using the side of a pen or pencil as illustrated.



SIC3172

1. Volume control switch
2. MODE select switch
3. POWER on/off switch
4. Memory change·Seek and APS switch

STEERING SWITCH FOR AUDIO CONTROL (if so equipped)

The audio system can be operated using the controls on the steering wheel.

POWER on/off switch

With the ignition switch turned to the ACC or ON position, push the POWER on/off switch to turn the audio system on or off.

MODE select switch

Push the mode select switch to change the mode in the sequence of FM, AM, SAT, CD and Tape.

Volume control switch

Push up or down the volume control switch to increase or decrease the volume.

Tuning

Memory change (radio):

Push the tuning switch ⌄ or ⌃ for less than 1.5 seconds to change the radio frequency.

Seek tuning (radio):

Push the tuning switch ⌄ or ⌃ for more than 1.5 seconds to seek the next or previous radio station.

APS (Automatic Program Search) FF, APS REW (tape and CD):

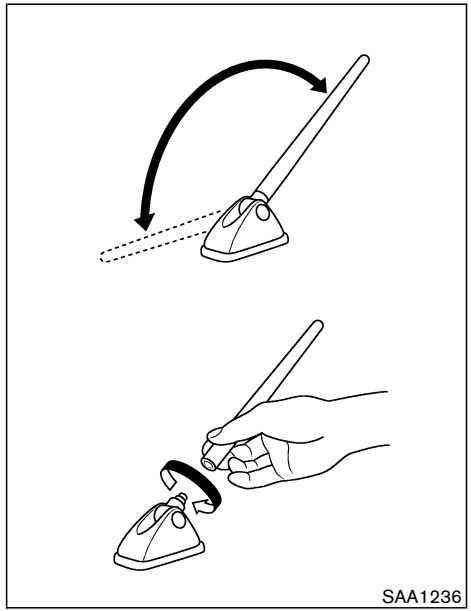
Push the tuning switch ⌄ or ⌃ for less than 1.5 seconds to return to the beginning of the present program or skip to the next program. Push several times to skip back or skip through programs.

This system searches for the blank intervals between selections. If there is a blank interval within one program or there is no interval between programs, the system may not stop in the desired or expected location.

FF REW (tape or CD):

Push the tuning switch ⌄ or ⌃ for more than 1.5 seconds to rewind or fast forward the tape or to change the playing disc up or down.

To stop the FF or REW function, push the ⌄ or ⌃ button for less than 1.5 seconds again.



ANTENNA

Placing the antenna

You can adjust the antenna positions manually.

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Removing the antenna

You can remove the antenna if necessary.

Hold the bottom of the antenna and remove by turning counterclockwise.

CAUTION

- **Be sure that antenna is removed before the vehicle enters an automatic car wash.**
- **Be sure to fold down the antenna before the vehicle enters a garage with a low ceiling.**

When installing a CB, ham radio or car phone in your NISSAN, be sure to observe the following cautions, otherwise the new equipment may adversely affect the Engine control system and other electronic parts.

WARNING

- **A cellular telephone should not be used while driving so full attention may be given to vehicle operation. Some jurisdictions prohibit the use of cellular telephones while driving.**
- **If you must make a call while your vehicle is in motion, the hands free cellular phone operational mode (if so equipped) is highly recommended. Exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If a conversation in a moving vehicle requires you to take notes, pull off the road to a safe location and stop your vehicle before doing so.**

CAUTION

- **Keep the antenna as far as possible away from the electronic control modules.**
- **Keep the antenna wire more than 8 in (20 cm) away from the electronic control system harnesses. Do not route the antenna wire next to any harness.**
- **Adjust the antenna standing-wave ratio as recommended by the manufacturer.**
- **Connect the ground wire from the CB radio chassis to the body.**
- **For details, consult a NISSAN dealer.**

Information Provided by:
DEALER E-PROCESS

MEMO

Information Provided by:
DEALER E-PROCESS

5 Starting and driving

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PRECAUTIONS WHEN STARTING AND DRIVING

WARNING

- **Do not leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**

EXHAUST GAS (Carbon monoxide)

WARNING

Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.

- **If you suspect that exhaust fumes are entering the vehicle, drive with all windows fully open, and have the vehicle inspected immediately.**
- **Do not run the engine in closed spaces such as a garage.**
- **Do not park the vehicle with the engine running for any extended length of time.**
- **Keep the lift gate closed while driving, otherwise exhaust gases could be drawn into the passenger compartment. If you must drive with the lift gate open, follow these precautions:**
  1. **Open all the windows.**
  2. **Set the air recirculation switch OFF and the fan control at 4 (high) to circulate the air.**
- **If electrical wiring or other cable connections must pass to a trailer through the seal on the lift gate or the body, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle.**
- **If a special body, camper or other equipment is added for recreational or other usage, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle. (Some recreational vehicle appliances such as stoves, refrigerators, heaters, etc. may also generate carbon monoxide.)**
- **The exhaust system and body should be inspected by a qualified mechanic whenever:**
  a. **The vehicle is raised for service.**
  b. **You suspect that exhaust fumes are entering into the passenger compartment.**
  c. **You notice a change in the sound of the exhaust system.**

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d. You have had an accident involving damage to the exhaust system, underbody, or rear of the vehicle.

THREE-WAY CATALYST

The three-way catalyst is an emission control device installed in the exhaust system. Exhaust gases in the converter are burned at high temperatures to help reduce pollutants.

⚠ WARNING

- **The exhaust gas and the exhaust system are very hot. Keep people, animals or flammable materials away from the exhaust system components.**
- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.**

⚠ CAUTION

- **Do not use leaded gasoline. Deposits from leaded gasoline will seriously reduce the three-way catalyst's ability to help reduce exhaust pollutants.**
- **Keep your engine tuned up. Malfunctions in the ignition, fuel injection, or electrical systems can cause overrich fuel flow into the three-way catalyst, causing it to overheat. Do not keep driving if the engine misfires, or if noticeable loss of performance or other unusual operating conditions are detected. Have the vehicle inspected promptly by a NISSAN dealer.**
- **Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the three-way catalyst.**
- **Do not race the engine while warming it up.**
- **Do not push or tow your vehicle to start the engine.**

Information Provided by:
DEALER E-PROCESS

TIRE PRESSURE MONITORING SYSTEM (TPMS)

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level

to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

Additional information

- The TPMS does not monitor the tire pressure of the spare tire.
- The TPMS will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). Also, this system may not detect a sudden drop in tire pressure (for example a flat tire while driving).
- The low tire pressure warning light does not automatically turn off when the tire pressure is adjusted. After the tire is inflated to the recommended pressure, the vehicle must be driven at speeds above 16 MPH (25 km/h) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.
- Tire pressure rises and falls depending on the heat caused by the vehicle's operation and the outside temperature. Low outside temperature can lower the temperature of the air inside the tire which can cause a lower tire inflation pressure. This may cause the low tire pressure warning light to illuminate. If the warning light illuminates in low ambient temperature, check the tire pressure for all four tires.
- You can also check the pressure of all tires (except the spare tire) on the display screen. The order of the tire pressure figures displayed on the screen does not correspond with the actual order of the tire position. See "Tire pressure information" in the "4. Display screen, heater, air conditioner and audio system" section.

For additional information, see "Low tire pressure warning light" in the "2. Instruments and controls" section and "Tire pressure monitoring system (TPMS)" in the "6. In case of emergency" section.

⚠ WARNING

- **If the low tire pressure warning light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If the light still illuminates while driving after adjusting the tire pressure, a tire may be flat. If you have a flat tire, replace it with a spare tire as soon as possible. (See "Flat tire" in the "In**

case of emergency" section for changing a flat tire.)

- **When a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute and remain on after the 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.**

CAUTION

Do not place metalized film or any metal parts (antenna, etc.) on the windows. This may cause poor reception of the signals from the tire pressure sensors, and the TPMS will not function properly.

FCC Notice:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules and RSS-210 of Industry Canada.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

AVOIDING COLLISION AND ROLLOVER

WARNING

Failure to operate this vehicle in a safe and prudent manner may result in loss of control or an accident.

Be alert and drive defensively at all times. Obey all traffic regulations. Avoid excessive speed, high speed cornering, or sudden steering maneuvers, because these driving practices could cause you to lose control of your vehicle. **As with any vehicle, a loss of control could result in a collision with other vehicles or objects, or cause the vehicle to rollover, particularly if the loss of control causes the vehicle to slide sideways.** Be attentive at all times, and avoid driving when tired. Never drive when under the influence of alcohol or drugs (including prescription or over-the-counter drugs which may cause drowsiness). Always wear your seat belt. See "Seat belts" in the "1. Safety — seats, seat belts and supplemental restraint system" section. Also instruct your passengers to do so.

Seat belts help reduce the risk of injury in

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collisions and rollovers. **In a rollover crash, an unbelted or improperly belted person is significantly more likely to be injured or killed than a person properly wearing a seat belt.**

ON-PAVEMENT AND OFFROAD DRIVING PRECAUTIONS (AWD)

Utility vehicles have a significantly higher rollover rate than other types of vehicles.

They have higher ground clearance than passenger cars to make them capable of performing in a variety of on-pavement and offroad applications. This gives them a higher center of gravity than ordinary cars. An advantage of higher ground clearance is a better view of the road, allowing you to anticipate problems. However, they are not designed for cornering at the same speeds as conventional two-wheel drive vehicles any more than low-slung sports cars are designed to perform satisfactorily under offroad conditions. If at all possible, avoid sharp turns or abrupt maneuvers, particularly at high speeds. As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or vehicle rollover. Seat belts help reduce the risk of injury in collisions and rollovers. In a rollover crash, an unbelted or improperly belted person is significantly more likely to be injured or killed than a person properly wearing a seat belt.

Be sure to read the driving safety precautions later in this section.

DRINKING ALCOHOL/DRUGS AND DRIVING

WARNING

Never drive under the influence of alcohol or drugs. Alcohol in the bloodstream reduces coordination, delays reaction time and impairs judgement. Driving after drinking alcohol increases the likelihood of being involved in an accident injuring yourself and others. Additionally, if you are injured in an accident, alcohol can increase the severity of the injury.

NISSAN is committed to safe driving. You must not drive under the influence of alcohol. Every year thousands of people are injured or killed in alcohol related accidents. Although the local laws vary on what is considered to be legally intoxicated, the fact is that alcohol affects all people differently and most people underestimate the effects of alcohol.

Remember, drinking and driving don't mix!

And that's true for drugs too (over the counter, prescription, and illegal drugs). Don't drive if your ability to operate your vehicle is impaired by alcohol, drugs, or some other physical condition.

DRIVING SAFETY PRECAUTIONS

Please observe the following precautions:

WARNING

- **Drive carefully when off the road and avoid dangerous areas. Every person who drives or rides in this vehicle should be seated with their seat belt fastened. This will keep you and your passengers in position when driving over rough terrain.**
- **Before driving up or down grades, check the road surface for bumps or potholes. Be sure to climb a gentle slope and descend a gentle slope.**
- **Do not drive across steep slopes. Instead drive either straight up or**

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straight down the slopes. Off-road vehicles can tip over sideways much more easily than they can forward or backward.

- Many hills are too steep for any vehicle. If you drive up them, you may stall. If you drive down them, you may not be able to control your speed. If you drive across them, you may roll over.
- Do not shift ranges while driving on downhill grades as this could cause loss of control of the vehicle.
- Be sure to use the engine brake. The foot brake performance may be reduced, resulting in a possible accident.
- Stay alert when driving to the top of a hill. At the top there could be a drop-off or other hazard that could cause an accident.
- If your engine stalls or you cannot make it to the top of a steep hill, never attempt to turn around. Your vehicle could tip or roll over. Always back straight down in R (Reverse) range. Never back down in N (Neutral), using only the brake, as this could cause loss of control.
- Heavy braking going down a hill could cause your brakes to overheat and fade, resulting in loss of control and an accident. Apply brakes lightly and use a low range to control your speed.
- Unsecured cargo can be thrown around when driving over rough terrain. Properly secure all cargo so it will not be thrown forward and cause injury to you or your passengers.
- To avoid raising the center of gravity excessively, do not exceed the rated capacity of the roof rack (if so equipped) and evenly distribute the load. Secure heavy loads in the cargo area as far forward and as low as possible. Do not equip the vehicle with tires larger than specified in this manual. This could cause your vehicle to roll over.
- Do not grip the inside or spokes of the steering wheel when driving off-road. The steering wheel could move suddenly and injure your hands. Instead drive with your fingers and thumbs on the outside of the rim.
- Before operating the vehicle, ensure that the driver and all passengers have their seat belts fastened.
- Always drive with the floor mats in place as the floor may become hot.
- Lower your speed when encountering strong crosswinds. With a higher center of gravity, your NISSAN is more affected by strong side winds. Slower speeds ensure better vehicle control.
- Do not drive beyond the performance capability of the tires, even with AWD engaged.

  Accelerating quickly, sharp steering maneuvers or sudden braking may cause loss of control.

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- If at all possible, avoid sharp turning maneuvers, particularly at high speeds. Your NISSAN all-wheel drive vehicle has a higher center of gravity than a two-wheel drive vehicle. The vehicle is not designed for cornering at the same speeds as conventional two-wheel drive vehicles. Failure to operate this vehicle correctly could result in loss of control and/or a rollover accident.
- Always use tires of the same type, size, brand, construction (bias, bias-belted or radial), and tread pattern on all four wheels. Install tire chains on the front wheels when driving on slippery roads and drive carefully.
- Be sure to check the brakes immediately after driving in mud or water. See “Brake system” later in this section for wet brakes.
- Avoid parking your vehicle on steep hills. If you get out of the vehicle and it rolls forward, backward or sideways, you could be injured.
- Whenever you drive off-road through sand, mud or water as deep as the wheel hub, more frequent maintenance may be required. See “Periodic maintenance” in the “Service and Maintenance Guide”.
- Do not drive continuously on sandy or muddy roads with the front wheels spinning. The AWD warning light blinks and the driving mode changes to 2WD. This could reduce traction force remarkably. Be especially careful when towing a trailer. (AWD models)
- Do not use 2-wheel chassis dynamometers or 2-wheel free rollers. (AWD models)
- Never operate the accelerator pedal with the front wheels raised and the rear wheels on the ground while jacking up or with the front wheels on the roller and the rear wheels on the ground. Otherwise, the vehicle could jump. (AWD models)
- When a wheel is suspended due to running off the road, do not idle the wheel excessively. (AWD models)
- When the vehicle is on a free roller or the front or rear wheels are jacked up, do not start the engine. (AWD models)

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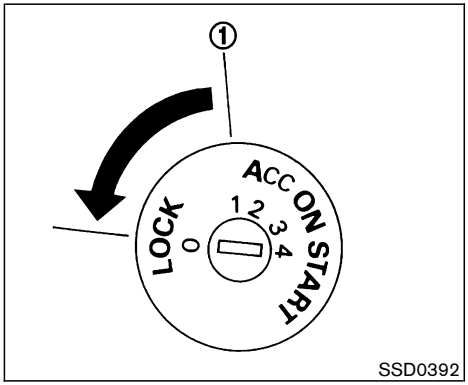
IGNITION SWITCH (Except for Intelligent Key equipped model)

WARNING

Never remove or turn the key to the LOCK position while driving. The steering wheel will lock. This may cause the driver to lose control of the vehicle and could result in serious vehicle damage or personal injury.



On CVT (Continuously Variable Transmission) models, the ignition lock is designed so that the key cannot be turned to LOCK and removed until the selector lever is moved to the P (Park) position.

When removing the key from the ignition, make sure the selector lever is in the P (Park) position.

If the selector lever is not returned to P (Park) position, the key cannot be moved toward LOCK.

When the key cannot be turned toward the LOCK position, proceed as follows to remove the key:

1. Move the selector lever into the P (Park) position.
2. Turn the ignition key slightly in the ON direction.
3. Turn the key toward the LOCK position.
4. Remove the key.

If the key is removed from the ignition switch, the selector lever cannot be moved from P (Park) position. **The selector lever can be moved if the ignition switch is in the ON position and the foot brake pedal is depressed.**

There is an OFF position (1) in between LOCK and ACC, although it does not show on the lock cylinder. When the ignition is in OFF the steering wheel is not locked.

In order for the steering wheel to be locked, it must be turned about 1/6 of a turn clockwise from the straight up position.

To lock the steering wheel, turn the key to the LOCK position. Remove the key. To unlock the steering wheel, insert the key and turn it gently while rotating the steering wheel slightly right and left.

Information Provided by:
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KEY POSITIONS

The switch includes an anti-theft steering lock device.

LOCK (Normal parking position) (0)

The ignition key can only be removed when the switch is in this position.

OFF (1)

The engine can be turned off without locking the steering wheel.

ACC (Accessories) (2)

This position activates electrical accessories such as the radio when the engine is not running.

ON (Normal operating position) (3)

This position turns on the ignition system and the electrical accessories.

START (4)

This position activates the starter motor, starting the engine.

NISSAN VEHICLE IMMOBILIZER SYSTEM (NVIS)

The NISSAN Vehicle Immobilizer System (NVIS) will not allow the engine to start without the use of the registered NISSAN Vehicle Immobilizer System key.

If the engine fails to start using the registered NVIS key, it may be due to interference caused by another NVIS key, an automated toll road device or automated payment device on the key ring. Restart the engine using the following procedures:

1. Leave the ignition switch in the ON position for approximately 5 seconds.
2. Turn the ignition switch to the OFF or LOCK position and wait approximately 10 seconds.
3. Repeat step 1 and 2 again.
4. Restart the engine while holding the device (which may have caused the interference) separate from the registered NVIS key.

If this procedure allows the engine to start, NISSAN recommends placing the registered NVIS key on a separate key ring to avoid interference from other devices.

IGNITION SWITCH (Intelligent Key System equipped model)

WARNING

Never turn the ignition switch to the LOCK position while driving. The steering wheel will lock. This may cause the driver to lose control of the vehicle and could result in serious vehicle damage or personal injury.

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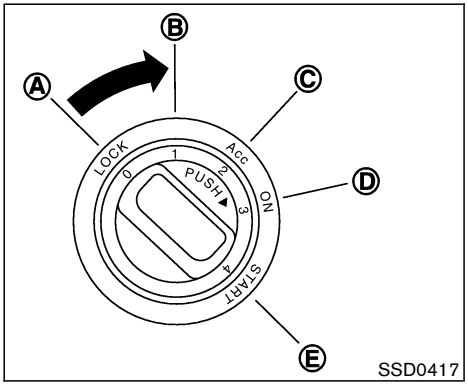

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The ignition lock is designed so that the ignition switch cannot be turned to LOCK and removed until the selector lever is moved to the P (Park) position.

When turning the ignition switch, make sure the selector lever is in the P position.

If the selector lever is not returned to the P position, the ignition switch cannot be moved toward LOCK.

When the ignition switch cannot be turned toward the LOCK position while keeping the Intelligent Key, proceed as follows:

1. Move the selector lever into the P position.
2. Turn the ignition switch slightly in the ON direction.
3. Turn the key toward the LOCK position.

The selector lever can be moved from P position if the ignition switch is in the ON position and the foot brake pedal is depressed.

There is an OFF position in between LOCK and ACC, although it does not show on the lock cylinder. When the ignition is in OFF the steering wheel is not locked.

In order for the steering wheel to be locked, it must be turned about 1/6 of a turn counterclockwise from the straight up position.

To lock the steering wheel, turn the ignition switch to the LOCK position. To unlock the steering wheel, push the ignition switch in and turn it gently while rotating the steering wheel slightly right and left.

If the battery of the vehicle equipped with the Intelligent Key system is discharged, the ignition switch cannot be turned from the LOCK position, even using the mechanical key or valet key.

IGNITION SWITCH POSITIONS

Push in the ignition switch to the (B) position when you turn it.

LOCK (Normal parking position) (A):

The ignition switch can only be locked in the LOCK position.

The ignition switch will be unlocked when it is pushed in, and turned to the ACC position (C) while carrying the Intelligent Key.

ACC (Accessories) (C):

This position activates electrical accessories such as the radio, when the engine is not running.

ON (Normal operating position) (D):

This position turns on the ignition system and electrical accessories.

START (E):

This position starts the engine. As soon as the engine has started, release the knob immediately. It will automatically return to the ON position.

The ignition switch cannot be turned back to the LOCK position unless the selector lever is in P position. (It can be turned only to the (B) position.)

Information Provided by:
DEALER E-PROCESS

CAUTION

Do not leave the vehicle with the ignition switch in ACC or ON positions when the engine is not running for an extended period. This can discharge the battery.

NISSAN VEHICLE IMMOBILIZER SYSTEM (NVIS)

The NISSAN Vehicle Immobilizer System (NVIS) will not allow the engine to start without the use of the registered NVIS key.

If the engine fails to start using the registered NVIS key, it may be due to interference caused by another NVIS key, an automated toll road device or an automated payment device on the key ring. Restart the engine using the following procedures:

1. Leave the ignition switch in the ON position for approximately 5 seconds.
2. Turn the ignition switch to the OFF or LOCK position and wait approximately 10 seconds.
3. Repeat step 1 and 2 again.
4. Restart the engine while holding the device (which may have caused the interference) separate from the registered NVIS key.

If this procedure allows the engine to start, NISSAN recommends placing the registered NVIS key on a separate key ring to avoid interference from other devices.

- Make sure the area around the vehicle is clear.
- Maintenance items should be checked periodically, for example, each time you check engine oil.
- Check that all windows and lights are clean.
- Visually inspect tires for their appearance and condition. Also, check tires for proper inflation.
- Lock all doors.
- Position seat and adjust head restraints.
- Adjust inside and outside mirrors.
- Adjust the pedal position.
- Fasten seat belts and ask all passengers to do likewise.
- Check the operation of warning lights when the ignition switch is turned to the ON position.

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1. Apply the parking brake.
2. Move the selector lever to P (Park) or N (Neutral). (P preferred.)

   The starter is designed not to operate if the selector lever is in one of the driving positions.
3. Crank the engine **with your foot off the accelerator pedal** by turning the ignition key to START. Release the key when the engine starts. If the engine starts, but fails to run, repeat the above procedure.

- If the engine is very hard to start in extremely cold weather or when restarting, depress the accelerator pedal a little (approximately 1/3 to the floor) and hold it then crank the engine. Release the key and the accelerator pedal when the engine starts.
- If the engine is very hard to start because it is flooded, depress the accelerator pedal all the way to the floor and hold it. Crank the engine for 5 to 6 seconds. After cranking the engine, release the accelerator pedal. Crank the engine **with your foot off the accelerator pedal** by turning the ignition switch to START. Release the key when the engine starts. If the engine starts, but fails to run, repeat the above procedure.

CAUTION

Do not operate the starter for more than 15 seconds at a time. If the engine does not start, turn the key off and wait 10 seconds before cranking again, otherwise the starter could be damaged.

4. **Warm-up**

   Allow the engine to idle for at least 30 seconds after starting. Do not race the engine while warming it up. Drive at moderate speed for a short distance first, especially in cold weather.

   In cold weather, keep the engine running for a minimum of 2 - 3 minutes before shutting it off. Starting and stopping the engine over a short period of time may make the vehicle more difficult to start.

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CVT (Continuously Variable Transmission)

Gate type shift

The CVT in your vehicle is electronically controlled by a transmission control module to produce maximum power and smooth operation.

Shown on the following pages are the recommended operating procedures for this transmission. Follow these procedures for maximum vehicle performance and driving enjoyment.

Starting the vehicle

After starting the engine, fully depress the foot brake pedal before shifting the selector lever to the R (Reverse), N (Neutral), D (Drive), S (Second) or L (Low) position. Be sure the vehicle is fully stopped before attempting to shift the selector lever.

This CVT model is designed so that the foot brake pedal must be depressed before shifting from P (Park) to any drive position while the ignition switch is ON.

The selector lever cannot be moved out of P (Park) position and into any of the other shift range if the ignition switch is turned to the LOCK, OFF or ACC position or if the key is removed from the switch.

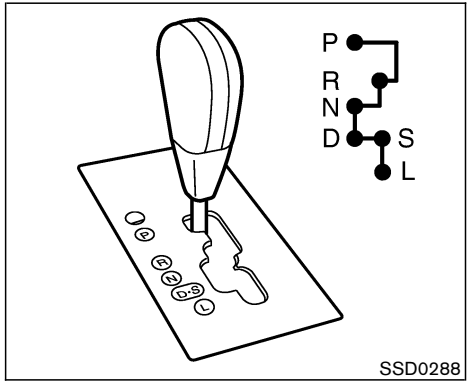
1. Keep the foot brake pedal depressed and shift into a driving range.
2. Release the parking brake and foot brake, then gradually start the vehicle in motion.

WARNING

- **Do not depress the accelerator pedal while shifting from P (Park) or N (Neutral) to R (Reverse), or D (Drive) or manual shift mode. Failure to do so could cause you to lose control and have an accident.**
- **Cold engine idle speed is high, so use caution when shifting into a forward or reverse range before the engine has warmed up.**
- **On slippery roads, do not downshift. This may cause a loss of control.**
- **Never shift to P (Park) or R (Reverse) while the vehicle is moving. Failure to do so could cause you to lose control and have an accident.**

CAUTION

When stopping the vehicle on an uphill grade, do not hold the vehicle by depressing the accelerator pedal. The foot brake should be used for this purpose.



Shifting

After starting the engine, fully depress the brake pedal and shift the selector lever from P (Park) to R (Reverse), D (Drive), or any of the desired shift positions.

WARNING

Apply the parking brake if the selector lever is in any position while the engine is not running. Failure to do so could cause the vehicle to move unexpectedly

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or roll away and result in serious personal injury or property damage.

If the key is turned to OFF or ACC for any reason while the vehicle is in R (Reverse), N (Neutral), or any D (Drive) position, the key cannot be turned to LOCK and be removed from the ignition switch. Additionally, the selector lever cannot be moved to R (Reverse) from N (Neutral) or any D (Drive) position. The selector lever can be moved to R (Reverse) from any of the D (Drive) positions within 3 minutes after the ignition switch is turned to the ACC or OFF position. The selector lever can be moved from R (Reverse) to P (Park) with the key in the OFF or ACC position.
If the key cannot be turned to LOCK, perform the following steps:

1. Apply the parking brake when the vehicle is stopped.
2. Turn the key to ON while depressing the foot brake pedal.
3. Move the selector lever to P (Park).
4. Turn the ignition switch to LOCK to remove the key.

P (Park):

Use this shift position when the vehicle is parked or when starting the engine. Make sure the vehicle is completely stopped. **The brake pedal must be depressed to move the selector lever from N (Neutral) or any drive position to P (Park).** Apply the parking brake. When parking on a hill, apply the parking brake first, then move the lever to the P (Park) position.

CAUTION

Use this position only when the vehicle is completely stopped.

R (Reverse):

Use this position to back up. Always be sure the vehicle is completely stopped when selecting R (Reverse). **The brake pedal must be depressed to move the selector lever from P (Park) to R (Reverse).**

The selector lever can be moved to R (Reverse) from any of the D (Drive) positions within 3 minutes after the ignition switch is turned to the ACC or OFF position.

N (Neutral):

Neither forward or reverse is engaged. The engine can be started in this position. You may shift to N (Neutral) and restart a stalled engine while the vehicle is moving.

D (Drive):

Use this position for all normal forward driving.

S (Second):

Use this position for the improved engine braking.

L (Low):

Use this position for maximum engine braking on steep downhill gradients/climbing steep slopes and whenever approaching sharp bends. Do not use the L position in any other circumstances.

Shift from the D to S or L position after releasing the accelerator pedal.

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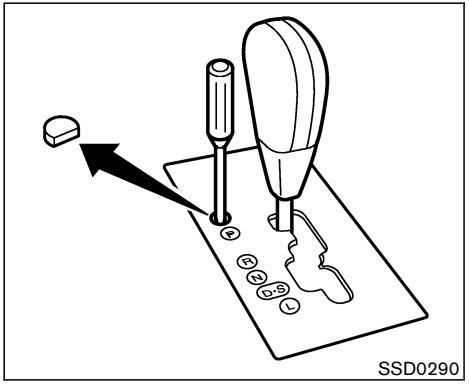

Shift lock release

If the battery charge is low or discharged, the selector lever may not be moved from the P (Park) position even with the brake pedal depressed.

To move the selector lever, depress the brake pedal, remove the cover (if so equipped) using a suitable tool and push the shift lock release button. The selector lever can be moved to N (Neutral). This allows the vehicle to be moved if the battery is discharged.

If the selector lever cannot be moved out of P (Park), have a NISSAN dealer check the CVT system as soon as possible.

Accelerator downshift — In D position —

For rapid passing or hill climbing, fully depress the accelerator pedal to the floor. This shifts the transmission down into lower range, depending on the vehicle speed.

High fluid temperature protection mode

This transmission has a high fluid temperature protection mode. If the fluid temperature becomes too high (for example, when climbing steep grades in high temperature with heavy loads, such as when towing a trailer), engine power and, under some conditions, vehicle speed will be decreased automatically to reduce the chance of transmission damage. Vehicle speed can be controlled with the accelerator pedal, but the vehicle may not accelerate above approximately 40 to 50 MPH (65 to 80 km/h).

Fail-safe

If the vehicle is driven under extreme conditions, such as excessive wheel spinning and subsequent hard braking, the fail-safe system may be activated. The MIL may come on to indicate the fail-safe mode is activated, see “Malfunction indicator light (MIL)” in the “2. Instrument and controls” section. This will occur even if all electrical circuits are functioning properly. In this case, turn the ignition switch to the OFF position and wait for 10 seconds. Then turn the switch back to the ON position. The vehicle should return to its normal operating condition. If it does not return to its normal operating condition, have a NISSAN dealer check the transmission and repair if necessary.

⚠ WARNING

When the high fluid temperature protection mode or fail-safe operation occurs, vehicle speed may be gradually reduced. The reduced speed may be lower than other traffic, which could increase the chance of a collision. Be especially careful when driving. If necessary, pull to the side of the road at a safe place and allow the transmission to return to normal operation, or have it repaired if necessary.

M-CVT (CVT with Manual shift mode)

Gate type shift with manual mode

The M-CVT in your vehicle is electronically controlled by a transmission control module to produce maximum power and smooth operation.

Shown on the following pages are the recommended operating procedures for this transmission. Follow these procedures for maximum vehicle performance and driving enjoyment.

Starting the vehicle

After starting the engine, fully depress the foot brake pedal before shifting the selector lever to the R (Reverse), N (Neutral), D (Drive) or manual shift mode position. Be sure the vehicle is fully stopped before attempting to shift the selector lever.

This M-CVT is designed so that the foot brake pedal MUST be depressed before shifting from P (Park) to any drive position while the ignition switch is ON.

The selector lever cannot be moved out of P (Park) and into any of the other gear positions if the ignition switch is turned to the LOCK, OFF or ACC position or if the key is removed from the ignition switch.

1. Keep the foot brake pedal depressed and shift the selector lever into a driving gear.
2. Release the parking brake and foot brake, then gradually start the vehicle in motion.

⚠ WARNING

- **Do not depress the accelerator pedal while shifting from P (Park) or N (Neutral) to R (Reverse), D (Drive) or manual shift mode. Always depress the brake pedal until shifting is completed. Failure to do so could cause you to lose control and have an accident.**
- **Cold engine idle speed is high, so use caution when shifting into a forward or reverse gear before the engine has warmed up.**
- **Never shift to P (Park) or R (Reverse) while the vehicle is moving. Never shift to P (Park) or D (Drive) while the vehicle is moving rearward. These could cause an accident.**
- **On slippery roads, do not downshift. This may cause a loss of control.**

⚠ CAUTION

When stopping the vehicle on an uphill grade, do not hold the vehicle by depressing the accelerator pedal. The foot brake should be used for this purpose.

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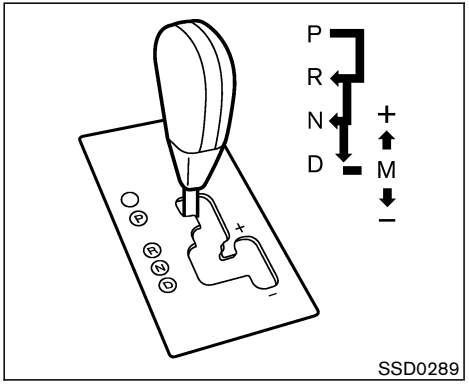

Shifting

After starting the engine, fully depress the brake pedal and shift the selector lever from P (Park) to R (Reverse), N (Neutral), D (Drive), Manual shift mode or any of the desired shift positions.

⚠ WARNING

Apply the parking brake if the selector lever is in any position while the engine is not running. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in serious personal injury or property damage.

If the ignition switch is turned to OFF or ACC for any reason while the vehicle is in R (Reverse), N (Neutral), or any D (Drive) position, the key cannot be turned to LOCK and be removed from the ignition switch. Additionally, the selector lever cannot be moved to R (Reverse) from N (Neutral) or any D (Drive) position for about 3 minutes after the ignition switch is turned to the ACC or OFF position. The selector lever can be moved from R (Reverse) to P (Park) with the key in the OFF or ACC position. If this occurs, perform the following steps:

1. Apply the parking brake when the vehicle is stopped.
2. Turn the key to ON.
3. Depress the foot brake pedal if the vehicle is in the N (Neutral) or any D (Drive) position.
4. If necessary, move the selector lever to P (Park) or N (Neutral) to restart the vehicle (P is preferred) or move the selector lever to P (Park) to park the vehicle.
5. Turn the ignition switch to LOCK to remove the key.

P (Park):

Use this shift position when the vehicle is parked or when starting the engine. Make sure the vehicle is completely stopped. For maximum safety, depress the brake pedal, then move the lever to the P (Park) position. **The brake pedal must be depressed any time the selector lever is moved to P (Park).** Apply the parking brake. When parking on a hill, apply the parking brake first, then move the lever to the P (Park) position.

⚠ CAUTION

Use this position only when the vehicle is completely stopped.

R (Reverse):

Use this position to back up. Always be sure the vehicle is completely stopped when selecting R (Reverse). **The brake pedal must be depressed to move the selector lever from P (Park) to R (Reverse).**

The selector lever can be moved to R (Reverse) from any of the D (Drive) positions within 3 minutes after the ignition switch is turned to the ACC or OFF position.

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N (Neutral):

Neither forward or reverse gear is engaged. The engine can be started in this position. You may shift to N (Neutral) and restart a stalled engine while the vehicle is moving.

D (Drive):

Use this position for all normal forward driving.

Manual shift mode

When the selector lever is shifted from D to the manual shift gate with the vehicle stopped or while driving, the transmission enters the manual shift mode. Shift ranges can be selected manually.

In the manual shift mode, the shift range is displayed on the position indicator in the meter.

Shift ranges up or down one by one as follows:

M1 ⇄ M2 ⇄ M3 ⇄ M4 ⇄ M5 ⇄ M6

M6 (Sixth):

Use this position for all normal forward driving.

M5 (Fifth):

For driving up or down long slopes where engine braking would be advantageous.

M4 (Fourth), M3 (Third) and M2 (Second):

Use for hill climbing or engine braking on downhill grades.

M1 (First):

Use this position when climbing steep hills slowly or driving slowly through deep snow, or for maximum engine braking on steep downhill grades.

- Remember not to drive at high speeds for extended periods of time in lower than M6 range. This reduces fuel economy.
- When shifting up, move the selector lever to the + (up) side. (Shifts to higher range.)
- When shifting down, move the selector lever to the – (down) side. (Shifts to lower range.)
- Moving the selector lever to the same side twice will shift the ranges in succession. However, if this motion is rapidly done, the second shifting may not be completed properly.
- **In the manual shift mode, the transmission automatically shifts down to M1 (First) before the vehicle comes to a stop. When accelerating again, it is necessary to shift up to the desired range.**
- When canceling the manual shift mode, return the selector lever to the D position. The transmission returns to the normal driving mode.
- **In the manual shift mode, the transmission may not shift to the selected gear. This helps maintain driving performance and reduces the chance of vehicle damage or loss of control.**
- When the CVT fluid temperature is extremely low, the manual shift mode may not work and automatically shift as a drive mode. This is not a malfunction. In this case, return the selector lever to D range and drive for a while and then shift to the manual shift mode.
- When the CVT fluid temperature is high, the shift range may upshift in lower rpm than usual. This is not a malfunction.

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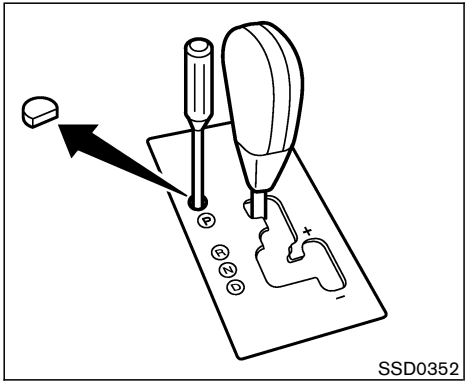

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Shift lock release

If the battery is discharged, the selector lever may not be moved from the P (Park) position even with the brake pedal depressed.

To move the selector lever, push the shift lock release button while depressing the foot brake and applying the parking brake. The selector lever can be moved to N (Neutral). This allows the vehicle to be moved if the battery is discharged, after releasing the parking brake.

If the battery is discharged in N (Neutral), D (Drive) or Manual shift mode, the selector lever may not be moved to the P (Park) position.

If it is necessary to park the vehicle, push the shift lock release button, then move the selector lever to the P (Park).

To push the shift lock release button, follow the procedure as illustrated.

If the lever cannot be moved out of P (Park), have a NISSAN dealer check the CVT system as soon as possible.

WARNING

- **If the selector lever cannot be moved from the P (Park) position while the engine is running and the brake pedal is depressed, the stop lights may not work. Malfunctioning stop lights could cause an accident injuring yourself and others.**
- **Do not park the vehicle without shifting to the P (Park) position.**

Accelerator downshift — In D position —

For passing or hill climbing, fully depress the accelerator pedal to the floor. This shifts the transmission down into the lower gear, depending on the vehicle speed.

High fluid temperature protection mode

This transmission has a high fluid temperature protection mode. If the fluid temperature becomes too high (for example, when climbing steep grades in high temperature with heavy loads, such as when towing a trailer), engine power and, under some conditions, vehicle speed will be decreased automatically to reduce the chance of transmission damage. Vehicle speed can be controlled with the accelerator pedal, but the vehicle may not accelerate above approximately 40 to 50 MPH (65 to 80 km/h).

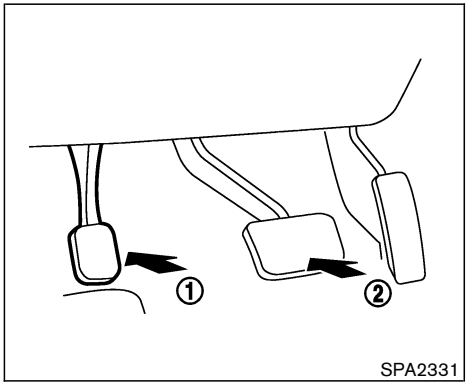
Fail-safe

If the vehicle is driven under extreme conditions, such as excessive wheel spinning and subsequent hard braking, the fail-safe system may be activated. The MIL may come on to indicate the fail-safe mode is activated, see “Malfunction indicator light (MIL)” in the “2. Instrument and controls” section. This will occur even if all electrical circuits are functioning properly. In this case, turn the ignition switch to the OFF position and wait for 10 seconds. Then turn the switch back to the ON position. The vehicle should return to its normal operat-

ing condition. If it does not return to its normal operating condition, have a NISSAN dealer check the transmission and repair if necessary.

WARNING

When the high fluid temperature protection mode or fail-safe operation occurs, vehicle speed may be gradually reduced. The reduced speed may be lower than other traffic, which could increase the chance of a collision. Be especially careful when driving. If necessary, pull to the side of the road at a safe place and allow the transmission to return to normal operation, or have it repaired if necessary.



To apply: Fully depress the parking brake pedal (1).

To release:

1. Firmly apply the foot brake (2).
2. Depress the parking brake pedal (1) and the parking brake will be released.
3. Before driving, be sure the brake warning light goes out.

WARNING

- **Be sure the parking brake is fully released before driving. Failure to do so can cause brake failure and lead to an accident.**
- **Do not release the parking brake from outside the vehicle.**
- **Do not use the gear shift in place of the parking brake. When parking, be sure the parking brake is fully engaged.**
- **Do not leave children unattended in a vehicle. They could release the parking brake and cause an accident.**

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WARNING

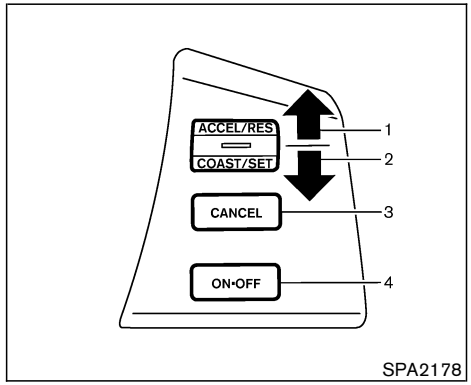
Do not use the cruise control when driving under the following conditions:

- **When it is not possible to keep the vehicle at a set speed.**
- **In heavy traffic or in traffic that varies in speed.**
- **On winding or hilly roads.**
- **On slippery roads (rain, snow, ice, etc.).**
- **In very windy areas.**

Doing so could cause a loss of vehicle control and result in an accident.

PRECAUTIONS ON CRUISE CONTROL

- If the cruise control system malfunctions, it cancels automatically. The SET indicator light on the meter panel then blinks to warn the driver.
- If the SET indicator light blinks, turn the cruise control main switch off and have the system checked by a NISSAN dealer.
- The SET indicator light may blink when the cruise control main switch is turned on while pushing the RESUME/ACCELERATOR, SET/COAST, or CANCEL switch. To properly set the cruise control system, perform the preceding steps in the order indicated.



1. RESUME/ACCELERATOR switch
2. SET/COAST switch
3. CANCEL switch
4. MAIN (ON/OFF) switch

CRUISE CONTROL OPERATIONS

The cruise control allows driving at a speed between 25 to 89 MPH (40 to 144 km/h) without keeping your foot on the accelerator pedal.

To turn on the cruise control, push the main switch on. The CRUISE indicator light on the meter panel will come on.

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To set cruising speed, accelerate your vehicle to the desired speed, push the SET/COAST switch and release it. (The SET indicator light will come on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- **To pass another vehicle,** depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.
- The vehicle may not maintain the set speed on winding or hilly roads. If this happens, drive without the cruise control.

To cancel the preset speed, follow any of these methods:

a) Push the CANCEL switch. The SET indicator light will go out.

b) Tap the brake pedal. The SET indicator light will go out.

c) Turn the main switch off. Both the CRUISE indicator and SET indicator lights will go out.

- If you depress the brake pedal while pushing the RESUME/ACCELERATOR set switch and reset at the cruising speed, turn the main switch off once and then turn it on again.
- The cruise control will automatically be cancelled if the vehicle slows down below approximately 8 MPH (13 km/h).
- Move the selector lever to N (Neutral) position. The SET indicator light will go out.

To reset at a faster cruising speed, use one of the following three methods:

a) Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the SET/COAST switch.

b) Push and hold the RESUME/ACCELERATOR set switch. When the vehicle attains the speed you desire, release the switch.

c) Push, then quickly release the RESUME/ACCELERATOR set switch. Each time you do this, the set speed will increase by about 1 MPH (1.6 km/h).

To reset at a slower cruising speed, use one of the following three methods:

a) Lightly tap the brake pedal. When the vehicle attains the desired speed, push the SET/COAST switch and release it.

b) Push and hold the SET/COAST switch. Release the switch when the vehicle slows down to the desired speed.

c) Push, then quickly release the SET/COAST switch. Each time you do this, the set speed will decrease by about 1 MPH (1.6 km/h).

To resume the preset speed, push and release the RESUME/ACCELERATOR set switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 25 MPH (40 km/h).

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BREAK-IN SCHEDULE

CAUTION

During the first 1,200 miles (2,000 km), follow these recommendations to obtain maximum engine performance and ensure the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in shortened engine life and reduced engine performance.

- Avoid driving for long periods at constant speed, either fast or slow. Do not run the engine over 4,000 rpm.
- Do not accelerate at full throttle in any gear.
- Avoid quick starts.
- Avoid hard braking as much as possible.
- Do not tow a trailer for the first 500 miles (800 km).

INCREASING FUEL ECONOMY

- Accelerate slowly and smoothly. Maintain cruising speeds with a constant accelerator position.
- Drive at moderate speeds on the highway. Driving at high speed will lower fuel economy.
- Avoid unnecessary stopping and braking. Maintain a safe distance behind other vehicles.
- Use a proper gear range which suits road conditions. On level roads, shift into high gear as soon as possible.
- Avoid unnecessary engine idling.
- Keep your engine tuned up.
- Follow the recommended periodic maintenance schedule.
- Keep the tires inflated at the correct pressure. Low pressure will increase tire wear and waste fuel.
- Keep the front wheels in correct alignment. Improper alignment will cause not only tire wear but also lower fuel economy.
- Air conditioner operation lowers fuel economy. Use the air conditioner only when necessary.
- When cruising at highway speeds, it is more economical to use the air conditioner and leave the windows closed to reduce drag.

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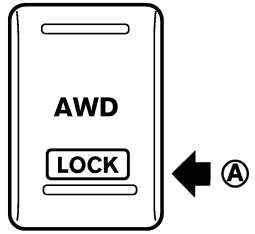
USING ALL-WHEEL DRIVE (AWD) (if so equipped)



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WARNING

A vehicle equipped with AWD (All-Wheel Drive) should never be tested using a two wheel dynamometer, similar to the dynamometers used by some states for emissions testing, or similar equipment. Make sure you inform the test facility personnel that your vehicle is an AWD equipped vehicle before it is placed on a dynamometer. Failure to do so may result in transmission damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.

AWD LOCK SWITCH OPERATIONS

The AWD LOCK switch located in front of the selector lever is used to select AUTO/LOCK depending on the driving conditions.

Each time you push the lower part of the switch, the AWD mode will switch: AUTO → LOCK → AUTO.

The AWD system electronically controls the coupling.

Push the lower part of the AWD LOCK switch Ⓐ to select the AUTO or LOCK mode depending on the driving conditions.

LOCK mode

Push the lower part of the switch Ⓐ when the vehicle is stopped or driving under approximately 10 km/h (6 MPH).
The AWD LOCK indicator light will come on.

AUTO mode

Push the lower part of the switch Ⓐ. The AWD LOCK indicator light will go off.

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AWD mode	Wheel driven	AWD LOCK indicator light	Use conditions
AUTO	Distribution of torque to the front and rear wheels changes automatically, depending on road conditions encountered [100:0]↔[50:50]. This results in improved driving stability.*1	Goes off.	For driving on paved or slippery roads
LOCK	All-wheel drive*2, *3	AWD LOCK	For driving on rough roads

*1: When the rotation difference between the front and rear wheels is large, the AWD mode may change from AUTO to LOCK for a while, however, this is not a malfunction.
*2: LOCK mode will change to AUTO mode automatically when the vehicle is accelerated or the vehicle speed is over approximately 10 km/h (6 MPH). The AWD LOCK indicator light does not go off.
LOCK mode will change to AUTO mode automatically when the vehicle has been driven for a high speed. The AWD LOCK indicator light goes off.
*3: LOCK mode will automatically be cancelled when the ignition switch is turned to the OFF position.

- If the AWD LOCK switch is operated while accelerating or decelerating, or if the ignition switch is turned off, you may feel a jerk. This is normal.
- The oil temperature of power train parts will increase if the vehicle is continuously operated under conditions where the difference in rotation between the front and rear wheels is large (wheel slip), such as when driving the vehicle on rough roads through sand, mud or freeing a stuck vehicle. In these cases, the AWD warning light blinks rapidly and the AWD mode changes to 2WD condition to protect the power train parts. If you stop driving with the engine idling and wait until the warning light stops blinking, the AWD returns to the AUTO mode.

⚠ WARNING

- **Do not place an AWD equipped vehicle on a two wheel dynamometer or raise two wheels off the ground and shift the transmission to any D (drive) or R (reverse) position. Doing so may result in transmission damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.**
- **When driving straight, shift the AWD lock switch to AUTO. Do not operate the AWD lock switch when making a turn or backing up.**
- **Do not operate the AWD lock switch with the front wheel spinning.**
- **Engine idling speed is high while warming up the engine. Be especially careful when starting or driving on slippery surfaces with the AWD lock switch set in AUTO or LOCK.**
- **When turning the vehicle in LOCK mode on paved roads, you may feel**

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a braking effect. This is a normal condition of the AWD model.

Warning light	Comes on or blinks when
Comes on	There is a malfunction in the all wheel drive system.
Blinks rapidly	The power-train oil temperature rises abnormally.
Blinks slowly	The difference in wheel rotation is large.

SSD0314A

AWD WARNING LIGHT

The AWD warning light is located in the meter.

The AWD warning light comes on when the ignition switch is turned to ON. It turns off soon after the engine is started.

If any malfunction occurs in the AWD system when the ignition switch is ON, the warning light will remain illuminated.

High-temperature power-train oil due to continuous operation of the vehicle to free a stuck vehicle makes the warning light blink rapidly (about twice per second). The driving mode may change to 2 wheel drive condition. AUTO mode may change to LOCK mode before the warning light blinks. This is normal. If the warning light blinks rapidly during operation, stop the vehicle with the engine idling in a safe place immediately. Then if the light goes off after a while, you can continue driving.

A large difference between the diameters of front and rear wheels will make the warning light blink slowly (about once per two seconds). Pull off the road in a safe area, and idle the engine. Check that all tire sizes are the same, tire pressure is correct and tires are not worn.

⚠ WARNING

Do not attempt to test an AWD equipped vehicle with two wheels on a two wheel dynamometer and the other two wheels raised. Doing so may result

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in transmission damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.

CAUTION

- If the warning light comes on while driving, AUTO or LOCK mode will be changed to 2 wheel drive condition. Reduce the vehicle speed and have your vehicle checked by a NISSAN dealer as soon as possible.
- When the warning light comes on, the 2 wheel condition may be engaged even if the driving mode is in AUTO or LOCK. Be especially careful when driving.
- Never drive on dry hard surface roads in the LOCK mode, as this will overload the power-train and may cause a serious malfunction.
- The power-train may be damaged if you continue driving with the warning light blinking rapidly.

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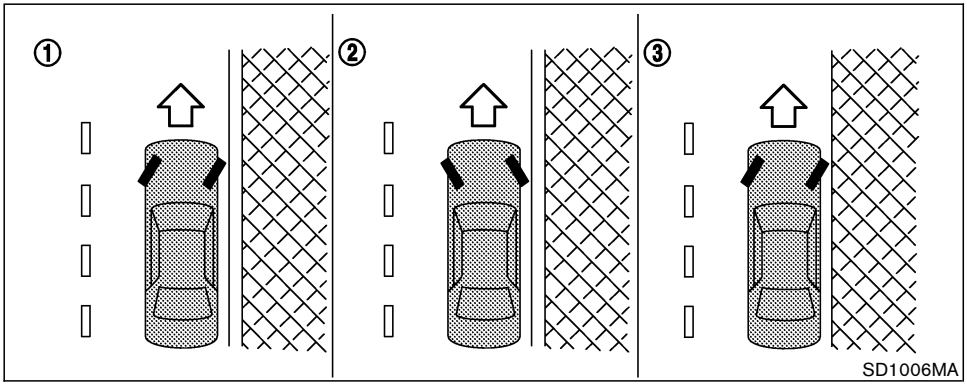

WARNING

- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.**
- **Never leave the engine running while the vehicle is unattended.**
- **Do not leave children unattended inside the vehicle.**

1. Firmly apply the parking brake.
2. Move the selector lever to the P (Park) position.

WARNING

- **Safe parking procedures require that both the parking brake be set and the transmission placed into P (Park). Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident.**
- **Make sure the selector lever has been pushed as far forward as it can go and cannot be moved without depressing the button at the end of the lever.**

3. To help prevent the vehicle from rolling into the street when parked on a sloping drive way, it is a good practice to turn the wheels as illustrated.

- HEADED DOWNHILL WITH CURB: ①

  Turn the wheels into the curb and move the vehicle forward until the curb side wheel gently touches the curb.

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- HEADED UPHILL WITH CURB: (2)

  Turn the wheels away from the curb and move the vehicle back until the curb side wheel gently touches the curb.

- HEADED UPHILL OR DOWNHILL, NO CURB: (3)

  Turn the wheels toward the side of the road so the vehicle will move away from the center of the road if it moves.

4. Turn the ignition switch to the LOCK position and remove the key.

POWER STEERING

The power assisted steering is designed to use a hydraulic pump, driven by the engine, to assist steering.

If the engine stops or drive belt breaks, you will still have control of the vehicle. However, much greater steering effort is needed, especially in sharp turns or at low speeds.

WARNING

If the engine is not running or is turned off while driving, the power assist for the steering will not work. Steering will be much harder to operate.

BRAKE SYSTEM

BRAKING PRECAUTIONS

The brake system has two separate hydraulic circuits. If one circuit malfunctions, you will still have braking at two wheels.

Vacuum assisted brake

The brake booster aids braking by using engine vacuum. If the engine stops, you can stop the vehicle by depressing the brake pedal. However, greater foot pressure on the brake pedal will be required to stop the vehicle and the stopping distance will be longer.

Wet brakes

When the vehicle is washed or driven through water, the brakes may get wet. As a result, your braking distance will be longer and the vehicle may pull to one side during braking.

To dry brakes, drive the vehicle at a safe speed while lightly tapping the brake pedal to heat-up the brakes. Do this until the brakes return to normal. Avoid driving the vehicle at high speeds until the brakes function correctly.

Parking brake break-in

Break in the parking brake shoes whenever the stopping effect of the parking brake is weakened or whenever the parking brake shoes and/or drums/rotors are replaced, in order to assure the

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best braking performance.

This procedure is described in the vehicle service manual and can be performed by a NISSAN dealer.

Using the brakes

Avoid resting your foot on the brake pedal while driving. This will cause overheating of the brakes, increases wear on the brake linings and pads, and reduces gas mileage.

To help save the brakes and to prevent the brakes from overheating, reduce speed and downshift to a lower gear before going down a slope or long grade. Overheated brakes may reduce braking performance and could result in loss of vehicle control.

WARNING

- **While driving on a slippery surface, be careful when braking, accelerating or downshifting. Abrupt braking or accelerating could cause the wheels to skid and result in an accident.**
- **If the engine is not running or is turned off while driving, the power assist for the brakes will not work. Braking will be harder.**

ANTI-LOCK BRAKING SYSTEM (ABS)

WARNING

- **The Anti-lock Braking System (ABS) is a sophisticated device, but it cannot prevent accidents resulting from careless or dangerous driving techniques. It can help maintain vehicle control during braking on slippery surfaces. Remember that stopping distances on slippery surfaces will be longer than on normal surfaces even with ABS. Stopping distances may also be longer on rough, gravel or snow covered roads, or if you are using tire chains. Always maintain a safe distance from the vehicle in front of you. Ultimately, the driver is responsible for safety.**
- **Tire type and condition may also affect braking effectiveness.**
  - **When replacing tires, install the specified size of tires on all four wheels.**
  - **When installing a spare tire, make sure that it is the proper size and type as specified on the Tire and Loading Information label. See “Tire and Loading Information label” in the “9. Technical and consumer information” section of this manual.**
  - **For detailed information, see “Wheels and tires” in the “8. Maintenance and do-it-yourself” section of this manual.**

The Anti-lock Braking System (ABS) controls the brakes so the wheels do not lock during hard braking or when braking on slippery surfaces. The system detects the rotation speed at each wheel and varies the brake fluid pressure to prevent each wheel from locking and sliding. By preventing each wheel from locking, the system helps the driver maintain steering control and helps to minimize swerving and spinning on slippery surfaces.

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Using the system

Depress the brake pedal and hold it down. Depress the brake pedal with firm steady pressure, but do not pump the brakes. The ABS will operate to prevent the wheels from locking up. Steer the vehicle to avoid obstacles.

WARNING

Do not pump the brake pedal. Doing so may result in increased stopping distances.

Self-test feature

The ABS includes electronic sensors, electric pumps, hydraulic solenoids and a computer. The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle at a low speed in forward or reverse. When the self-test occurs, you may hear a “clunk” noise and/or feel a pulsation in the brake pedal. This is normal and does not indicate a malfunction. If the computer senses a malfunction, it switches the ABS off and illuminates the ABS warning light on the instrument panel. The brake system then operates normally, but without anti-lock assistance.

If the ABS warning light illuminates during the self-test or while driving, have the vehicle checked by a NISSAN dealer.

Normal operation

The ABS operates at speeds above 3 to 6 MPH (5 to 10 km/h). The speed varies according to road conditions.

When the ABS senses that one or more wheels are close to locking up, the actuator rapidly applies and releases hydraulic pressure. This action is similar to pumping the brakes very quickly. You may feel a pulsation in the brake pedal and hear a noise from under the hood or feel a vibration from the actuator when it is operating. This is normal and indicates that the ABS is operating properly. However, the pulsation may indicate that road conditions are hazardous and extra care is required while driving.

VEHICLE DYNAMIC CONTROL (VDC) SYSTEM (if so equipped)

When accelerating or driving on slippery surfaces, the tires may spin or slide. With the Vehicle Dynamic Control (VDC) system, sensors detect these movements and control the braking and engine output to help improve vehicle stability.

- When the VDC system is operating, the “SLIP” indicator in the instrument panel blinks.
- When only the Traction Control System (TCS) portion of the VDC system is operating, the “SLIP” indicator in the instrument panel blinks.
- If the “SLIP” indicator blinks, the road conditions are slippery. Be sure to adjust your speed and driving to these conditions. Be sure to drive carefully. See “Slip indicator light”, and “Vehicle Dynamic Control (VDC) OFF indicator light” in the “2. Instruments and controls” section.
- Indicator light
  If a malfunction occurs in the system, the “SLIP” and “VDC OFF” indicator lights illuminate in the instrument panel. As long as these indicators are illuminated, the VDC system function is canceled.

The VDC system uses an Active Brake Limited Slip (ABLS) system to improve vehicle traction.

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The ABLS system works when one of the driving wheels is spinning on a slippery surface. The ABLS system brakes the spinning wheel, which distributes the driving power to the other driving wheel. If the vehicle is operated with the VDC system turned off, all VDC system functions and TCS functions will be turned off. The ABLS system and ABS will still operate with the VDC system off. When the ABLS system is activated, the “SLIP” indicator light will blink and you may hear a clunk noise and/or feel a pulsation in the brake pedal. This is normal and is not an indication of a malfunction.

While the VDC system is operating, you may feel a pulsation in the brake pedal and hear a noise or feel a vibration from under the hood. This is normal and indicates that the VDC system is working properly.

The VDC system computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle at a low speed forward or backward. When the self-test occurs, you may hear a clunk noise and/or feel a pulsation in the brake pedal. This is normal and is not an indication of a malfunction.

WARNING

- **The VDC system is designed to help improve driving stability but does not prevent accidents due to abrupt steering operation at high speeds or due to careless or dangerous driving techniques. Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces and always drive carefully.**
- **If engine related parts such as a muffler are not standard equipment or are extremely deteriorated, the “VDC OFF” indicator or “SLIP” indicator or both indicator lights may illuminate.**
- **Do not modify the vehicle’s suspension. If suspension parts such as shock absorbers, struts, springs, stabilizer bars and bushings are not NISSAN-approved or are extremely deteriorated the VDC system may not operate properly. This could adversely affect vehicle handling performance, and the “VDC OFF” indicator or “SLIP” indicator or both indicator lights may illuminate.**
- **If brake related parts such as brake pads, rotors and calipers are not standard equipment or are extremely deteriorated, the “VDC OFF” indicator or “SLIP” indicator or both indicator lights may illuminate.**
- **When driving on extremely inclined surfaces such as higher banked corners, the VDC system may not operate properly and the “VDC OFF” indicator or “SLIP” indicator or both indicator lights may illuminate. Do not drive on these types of roads.**
- **When driving on an unstable surface such as a turntable, ferry, elevator or ramp, the “VDC OFF” indicator or “SLIP” indicator or both indicator lights may illuminate. This is not a malfunction. Restart the engine after driving onto a stable surface.**
- **If wheels or tires other than those recommended are used, the VDC sys-**

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tem may not operate properly and the "VDC OFF" indicator or "SLIP" indicator or both indicator lights may illuminate.

- **The VDC system is not a substitute for winter tires or tire chains on a snow-covered road.**

FREEING A FROZEN DOOR LOCK

To prevent a door lock from freezing, apply deicer or glycerin to it through the key hole. If the lock becomes frozen, heat the key before inserting it into the key hole.

ANTIFREEZE

In the winter when it is anticipated that the temperature will drop below 32°F (0°C), check antifreeze to assure proper winter protection. For additional information, see "Engine cooling system" in the "8. Maintenance and do-it-yourself" section.

BATTERY

If the battery is not fully charged during extremely cold weather conditions, the battery fluid may freeze and damage the battery. To maintain maximum efficiency, the battery should be checked regularly. For additional information, see "Battery" in the "8. Maintenance and do-it-yourself" section.

DRAINING OF COOLANT WATER

If the vehicle is to be left outside without antifreeze, drain the cooling system by opening the drain plug located under the radiator. Refill before operating the vehicle. See "Engine cooling system" in the "8. Maintenance and do-it-yourself" section for changing engine coolant.

TIRE EQUIPMENT

1. SUMMER tires are of a tread design to provide superior performance on dry pavement. However, the performance of these tires will be substantially reduced in snowy and icy conditions. If you operate your vehicle on snowy or icy roads, NISSAN recommends the use of MUD & SNOW or ALL SEASON tires on all four wheels. Please consult a NISSAN dealer for the tire type, size, speed rating and availability information.
2. For additional traction on icy roads, studded tires may be used. However, some provinces and states prohibit their use. Check local, state and provincial laws before installing studded tires.

Skid and traction capabilities of studded snow tires, on wet or dry surfaces, may be poorer than that of non-studded snow tires.

3. Tire chains may be used. For details, see "Tire chains" in the "Maintenance and do-it-yourself" section of this manual.
4. For all-wheel drive:
   If you install snow tires, they must also be the same size, brand, construction and tread pattern on all four wheels.

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SPECIAL WINTER EQUIPMENT

It is recommended that the following items be carried in the vehicle during winter:

- a scraper and stiff-bristled brush to remove ice and snow from the windows and wiper blades.
- a sturdy, flat board to be placed under the jack to give it firm support.
- a shovel to dig the vehicle out of snow-drifts.
- extra window washer fluid to refill the reservoir tank.

DRIVING ON SNOW OR ICE

WARNING

- **Wet ice (32°F, 0°C and freezing rain), very cold snow or ice can be slick and very hard to drive on. The vehicle will have much less traction or "grip" under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.**
- **Whatever the condition, drive with caution. Accelerate and slow down with care. If accelerating or downshifting too fast, the drive wheels will lose even more traction.**
- **Allow more stopping distance under these conditions. Braking should be started sooner than on dry pavement.**
- **Allow greater following distances on slippery roads.**
- **Watch for slippery spots (glare ice). These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while on the ice, and avoid any sudden steering maneuvers.**
- **Do not use cruise control on slippery roads.**
- **Snow can trap dangerous exhaust gases under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.**

ENGINE BLOCK HEATER (if so equipped)

Engine block heaters are available through NISSAN dealers to assist in cold temperature starting. The engine block heater should be used when the outside temperature is 20 degrees °F (−7 degrees °C) or lower.

To use the engine block heater:

1. Turn the engine off.
2. Open the hood and unwrap the engine block heater cord.
3. Plug the engine block heater cord into a grounded 3-wire, 3-pronged extension cord.
4. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-volt AC (VAC) outlet.
5. The engine block heater must be plugged in for at least 2 - 4 hours, depending on outside temperatures, to properly warm the engine coolant. Use an appropriate timer to turn the engine block heater on.
6. Before starting the engine, unplug and properly store the cord to keep it away from moving parts.

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WARNING

- **Do not use your engine block heater with an ungrounded electrical system or a 2-pronged adapter. You can be seriously injured by an electrical shock if you use an ungrounded connection.**
- **Disconnect and properly store the engine block heater cord before starting the engine. Damage to the cord could result in an electrical shock and can cause serious injury.**
- **Use a heavy-duty 3-wire, 3-pronged extension cord rated for at least 10 A. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-VAC outlet. Failure to use the proper extension cord or a grounded outlet can result in a fire or electrical shock and cause serious personal injury.**

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6 In case of emergency

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TIRE PRESSURE MONITORING SYSTEM

This vehicle is equipped with the tire pressure monitoring system (TPMS). It monitors tire pressure of all tires except the spare. When the low tire pressure warning light is lit, one or more of your tires is significantly under-inflated. If equipped, the system also displays pressure of all tires (except the spare tire) on the display screen by sending a signal from a sensor that is installed in each wheel. If the vehicle is being driven with low tire pressure, the TPMS will activate and warn you of it by the low tire pressure warning light. This system will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). For more details, refer to “Warning/indicator lights and audible reminders” in the “2. Instruments and controls” section, “Tire pressure information” in the “4. Display screen, heater, air conditioner and audio systems” section and “Tire pressure monitoring system (TPMS)” in the “5. Starting and driving” section.

WARNING

- **If the low tire pressure warning light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If the light still illuminates while driving after adjusting the tire pressure, a tire may be flat. If you have a flat tire, replace it with a spare tire as soon as possible.**
- **When a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute and remain on after the 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.**

CHANGING A FLAT TIRE

If you have a flat tire, follow the instructions below.

Stopping the vehicle

1. Safely move the vehicle off the road away from traffic.
2. Turn on the hazard warning flashers.
3. Park on a level surface and apply the parking brake. Shift the selector lever into P (Park).
4. Turn off the engine.
5. Raise the hood to warn other traffic, and to signal professional road assistance person-

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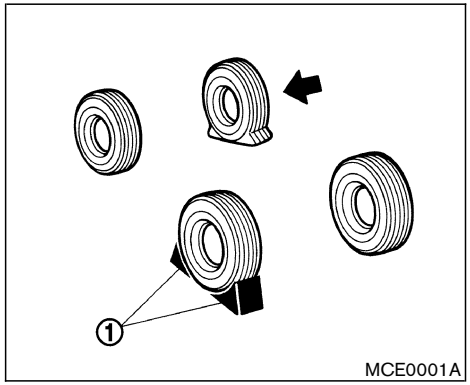
nel that you need assistance.

6. Have all passengers get out of the vehicle and stand in a safe place, away from traffic and clear of the vehicle.

WARNING

- **Make sure the parking brake is securely applied and the selector lever is shifted into P (Park).**
- **Never change tires when the vehicle is on a slope, ice or slippery areas. This is hazardous.**
- **Never change tires if oncoming traffic is close to your vehicle. Wait for professional road assistance.**
- **When a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute and remain on after the 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**



Blocking wheels

Place suitable blocks (1) at both the front and back of the wheel diagonally opposite the flat tire to prevent the vehicle from moving when it is jacked up.

WARNING

Be sure to block the wheel as the vehicle may move and result in personal injury.

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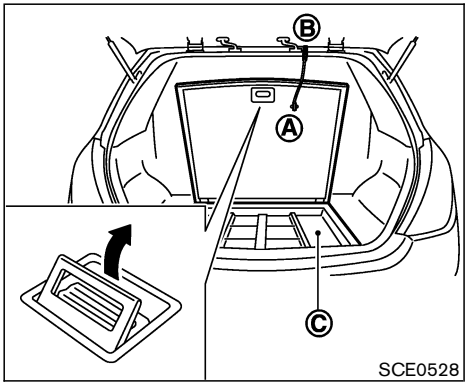
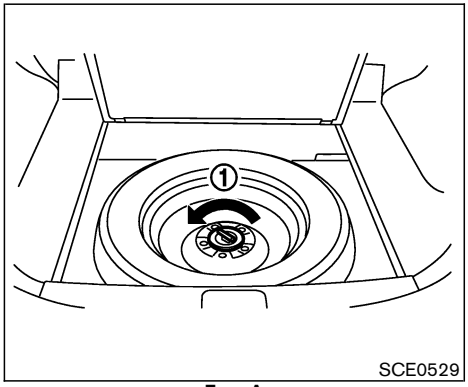


Getting the spare tire and tools

Pull up the floor cover and hang the strap (A) to upper body (B) as illustrated. Remove the under tray (C) (if so equipped).

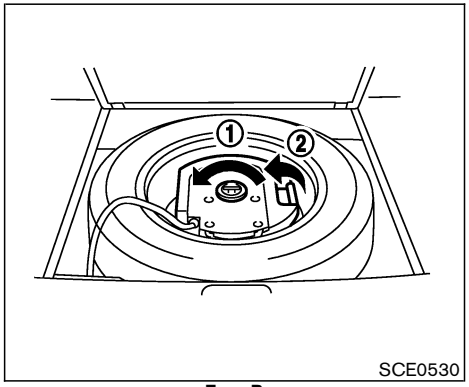
Remove the jacking tools and spare tire from the storage area located under the floor cover as illustrated.



Type A

Type A:

Turn the retainer counterclockwise (1) and remove the spare tire.



Type B

Type B:

Turn the retainer counterclockwise (1), remove the subwoofer (2) and remove the spare tire.

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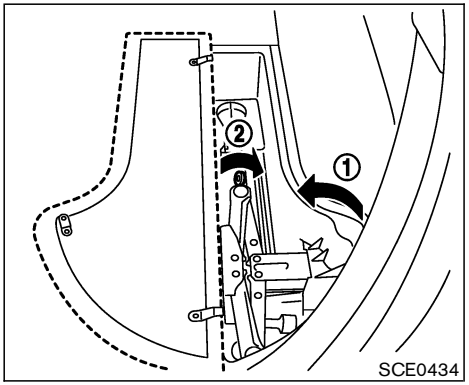
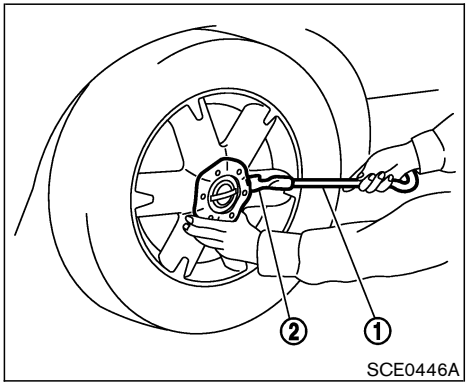


Pull up the floor cover (1) as illustrated and remove (2) the jack and tools.



Removing wheel cap (if so equipped)

To remove the wheel cap, use the jack rod (1) as illustrated.

Apply the cloth (2) between the wheel cap and jack rod to prevent damaging.

CAUTION

Do not use your hands to pry off wheel caps or wheel covers. Doing so could result in personal injury.

Jacking up vehicle and removing the damaged tire

WARNING

- **Never get under the vehicle while it is supported only by the jack. If it is necessary to work under the vehicle, support it with safety stands.**
- **Use only the jack provided with your vehicle to lift the vehicle. Do not use the jack provided with your vehicle on other vehicles.**
  The jack is designed for lifting only your vehicle during a tire change.
- **Use the correct jack-up points. Never use any other part of the vehicle for jack support.**
- **Never jack up the vehicle more than necessary.**
- **Never use blocks on or under the jack.**
- **Do not start or run the engine while vehicle is on the jack as it may cause**

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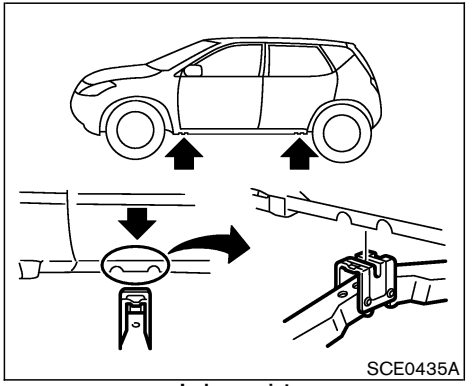
the vehicle to move. This is especially true for vehicles with limited slip differentials.

- **Do not allow passengers to stay in the vehicle while it is on the jack.**

Carefully read the caution label attached to the jack body and the following instructions.



Jack-up point

1. Place the jack directly under the jack-up point as illustrated so the top of the jack contacts the vehicle at the jack-up point. Align the jack head between the two notches in the front or the rear as shown. Also fit the groove of the jack head between the notches as shown.

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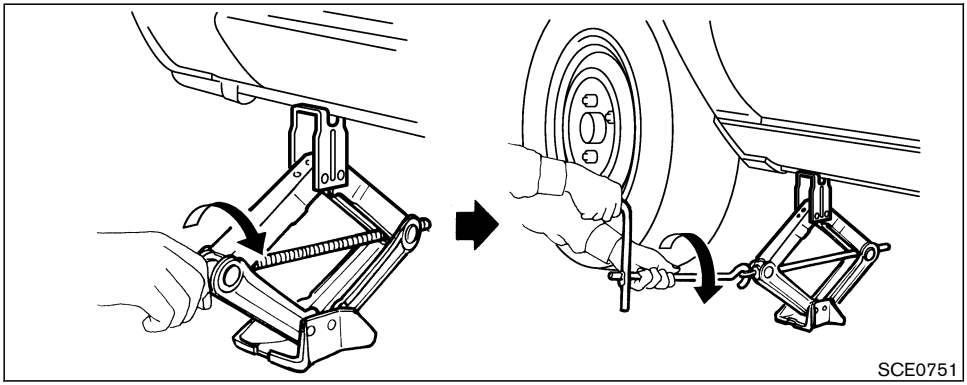
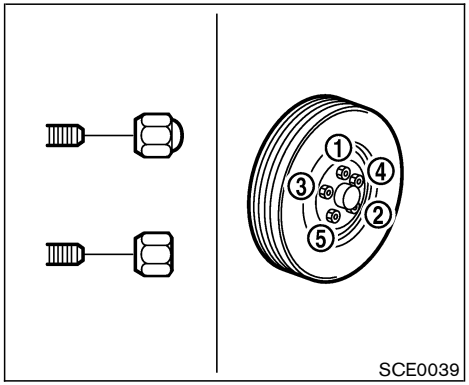

SCE0751

The jack should be used on level firm ground.

2. Loosen each wheel nut one or two turns by turning counterclockwise with the wheel nut wrench. **Do not remove the wheel nuts until the tire is off the ground.**
3. Carefully raise the vehicle until the tire clears the ground. To lift the vehicle, securely hold the jack lever and rod with both hands as shown above. Remove the wheel nuts, and then remove the tire.



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Installing the spare tire

The spare tire is designed for emergency use. See specific instructions under the heading “Wheels and tires” in the “Maintenance and do-it-yourself ” section of this manual.

1. Clean any mud or dirt from the surface between the wheel and hub.
2. Carefully put the spare tire on and tighten the wheel nuts finger tight.
3. With the wheel nut wrench, tighten wheel nuts alternately and evenly in the sequence

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illustrated (①, ②, ③, ④, ⑤) until they are tight.

4. Lower the vehicle slowly until the tire touches the ground. Then, with the wheel nut wrench, tighten the wheel nuts securely in the sequence illustrated. Lower the vehicle completely.

WARNING

- **Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose or come off. This could cause an accident.**
- **Do not use oil or grease on the wheel studs or nuts. This could cause the nuts to become loose.**
- **Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).**

As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

Wheel nut tightening torque:

80 ft-lb (108 N·m)

The wheel nuts must be kept tightened to specification at all times. It is recommended that wheel nuts be tightened to specifications at each lubrication interval.

Adjust tire pressure to the COLD pressure.

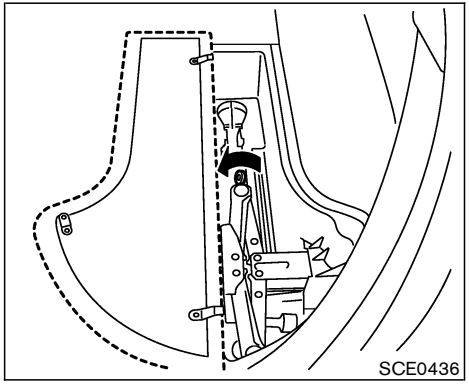
COLD pressure:

After vehicle has been parked for three hours or more or driven less than 1 mile (1.6 km).

COLD tire pressures are shown on the Tire and Loading Information label affixed to the driver side center pillar.

For models equipped with the tire pressure monitoring system (TPMS):

After adjusting tire pressure to the COLD tire pressure, the display of the tire pressure information may show higher pressure than the COLD tire pressure after the vehicle has been driven more than 1 mile (1.6 km). This is because the tire pressurizes as the tire temperature rises. This does not indicate a system malfunction.



5. Securely store the flat tire and jacking equipment in the vehicle.
6. Close the floor cover.

WARNING

- **Always make sure that the spare tire and jacking equipment are properly secured after use. Such items can become dangerous projectiles in an accident or sudden stop.**

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- **The spare tire is designed for emergency use. See specific instructions under the heading “Wheels and tires” in the “Maintenance and do-it-yourself” section of this manual.**

JUMP STARTING

To start your engine with a booster battery, the instructions and precautions below must be followed.

⚠ WARNING

- **If done incorrectly, jump starting can lead to a battery explosion, resulting in severe injury or death. It could also damage your vehicle.**
- **Explosive hydrogen gas is always present in the vicinity of the battery. Keep all sparks and flames away from the battery.**
- **Do not allow battery fluid to come into contact with eyes, skin, clothing or painted surfaces. Battery fluid is a corrosive sulphuric acid solution which can cause severe burns. If the fluid should come into contact with anything, immediately flush the contacted area with water.**
- **Keep battery out of the reach of children.**
- **The booster battery must be rated at 12 volts. Use of an improperly rated battery can damage your vehicle.**
- **Whenever working on or near a battery, always wear suitable eye protectors (for example, goggles or industrial safety spectacles) and remove rings, metal bands, or any other jewelry. Do not lean over the battery when jump starting.**
- **Do not attempt to jump start a frozen battery. It could explode and cause serious injury.**
- **Your vehicle has an automatic engine cooling fan. It could come on at any time. Keep hands and other objects away from it.**

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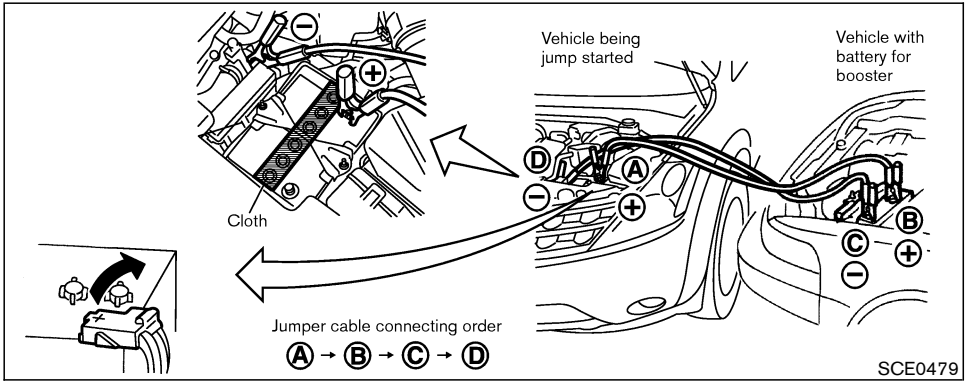

⚠ WARNING

Always follow the instructions below. Failure to do so could result in damage to the charging system and cause personal injury.

1. If the booster battery is in another vehicle, position the two vehicles to bring their batteries into close proximity to each other.

   Do not allow the two vehicles to touch.

2. Apply parking brake. Move the selector lever to the P (Park) position. Switch off all unnecessary electrical systems (light, heater, air conditioner, etc.).
3. Remove vent caps on the battery (if so equipped). Cover the battery with an old cloth as illustrated to reduce explosion hazard.
4. Connect jumper cables in the sequence as illustrated (Ⓐ → Ⓑ → Ⓒ → Ⓓ).

⚠ CAUTION

- **Always connect positive (+) to positive (+) and negative (–) to body ground (for example, strut mounting bolt, engine lift bracket, etc. — not to the battery).**
- **Make sure that jumper cables do not touch moving parts in the engine compartment and that the cable clamps do not contact any other metal.**

5. Start the engine of the other vehicle and let it run for a few minutes.
6. Keep the engine speed of the other vehicle at about 2,000 rpm, and start your engine in the normal manner.

⚠ CAUTION

Do not keep the starter motor engaged for more than 10 seconds. If the engine does not start right away, turn the key off and wait 3 to 4 seconds before trying

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again.

7. After starting your engine, carefully disconnect the negative cable and then the positive cable.
8. Replace the vent caps (if so equipped). Be sure to dispose of the cloth used to cover the vent holes as it may be contaminated with corrosive acid.

PUSH STARTING

Do not start the engine by pushing.

CAUTION

CVT models cannot be push started. Attempting to do so may cause transmission damage.

IF YOUR VEHICLE OVERHEATS

WARNING

- **Do not continue to drive if your vehicle overheats. Doing so could cause engine damage or a vehicle fire.**
- **To avoid the danger of being scalded, never remove the radiator cap while the engine is still hot. When the radiator cap is removed, pressurized hot water will spurt out, possibly causing serious injury.**
- **Do not open the hood if steam is coming out.**

If your vehicle is overheating (indicated by an extremely high temperature gauge reading), or if you feel a lack of engine power, detect abnormal noise, etc., take the following steps:

1. Move the vehicle safely off the road, apply the parking brake and move the selector lever to the P (Park) position.

   Do not stop the engine.

2. Turn off the air conditioner switch. Open all the windows, move the heater or air condi-

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tioner temperature control to maximum hot and fan control to high speed.

3. If engine overheating is caused by climbing a long hill on a hot day, run the engine at a fast idle (approximately 1,500 rpm) until the temperature gauge indication returns to normal.
4. Get out of the vehicle. Look and listen for steam or coolant escaping from the radiator before opening the hood. (If steam or coolant is escaping, turn off the engine.) Do not open the hood further until no steam or coolant can be seen.
5. Open the engine hood.

WARNING

If steam or water is coming from the engine, stand clear to prevent getting burned.

6. Visually check if the cooling fan is running. The radiator hoses and radiator should not leak water.

   If coolant is leaking or the cooling fan does not run, stop the engine.

WARNING

- **Be careful not to allow your hands, hair, jewelry or clothing to come into contact with, or get caught in, drive belt, or cooling fan.**
- **The engine cooling fan can start at any time when the coolant temperature is high.**

7. After the engine cools down, check the coolant level in the reservoir tank with the engine running. Add coolant to the reservoir tank if necessary. Have your vehicle repaired at the nearest NISSAN dealer.

TOWING YOUR VEHICLE

When towing your vehicle, all State, provincial and local regulations for towing must be followed. Incorrect towing equipment could damage your vehicle. Towing instructions are available from a NISSAN dealer. Local service operators are generally familiar with the applicable laws and procedures for towing. To assure proper towing and to prevent accidental damage to your vehicle, NISSAN recommends having a service operator tow your vehicle. It is advisable to have the service operator carefully read the following precautions.

WARNING

- **Never ride in a vehicle that is being towed.**
- **Never get under your vehicle after it has been lifted by a tow truck.**

CAUTION

- **When towing, make sure that the transmission, axles, steering system and powertrain are in working condition. If any unit is damaged, dollies**

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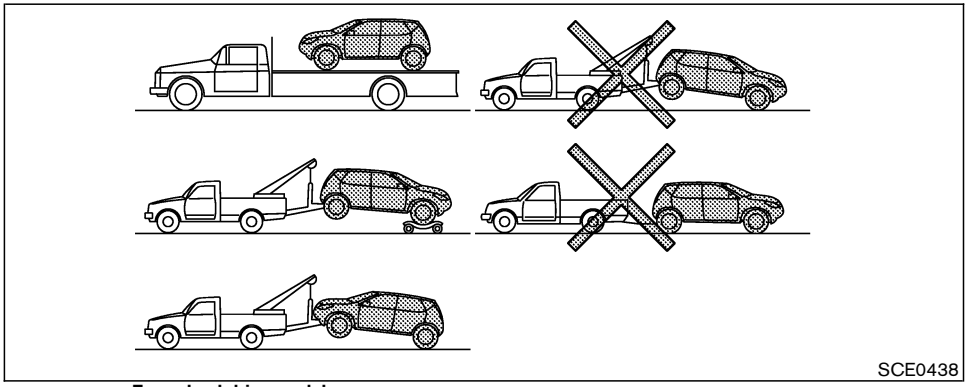
must be used.

- **Always attach safety chains before towing.**

For information about towing your vehicle behind a recreational vehicle (RV), refer to “Flat towing” in the “Technical and consumer information” section of this manual.



Two wheel drive models

TOWING RECOMMENDED BY NISSAN

Two wheel drive models

NISSAN recommends that your vehicle be towed with the driving (front) wheels off the ground or place the vehicle on a flat bed truck as illustrated.

CAUTION

- **Never tow CVT models with the front wheels on the ground or four wheels on the ground (forward or backward), as this may cause serious and expensive damage to the transmission.**
  If it is necessary to tow the vehicle with the rear wheels raised, always use towing dollies under the front wheels.
- **When towing with the front wheels on towing dollies:**
  - **Turn the ignition key to the OFF position, and secure the steering**

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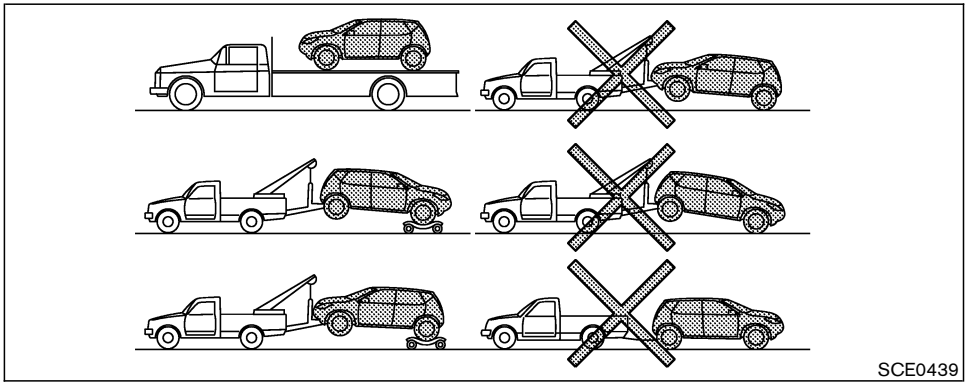
wheel in a straight-ahead position with a rope or similar device. Never secure the steering wheel by turning the ignition key to the LOCK position. This may damage the steering lock mechanism.

- Move the selector lever to the N (Neutral) position.

- When towing two wheel drive CVT model with the rear wheels on the ground (if you do not use towing dollies): Always release the parking brake.



All-wheel drive models

All-wheel drive models

NISSAN recommends that towing dollies be used when towing your vehicle or the vehicle be placed on a flat bed truck as illustrated.

CAUTION

Never tow CVT AWD models with any of the wheels on the ground as this may cause serious and expensive damage to the drive train.

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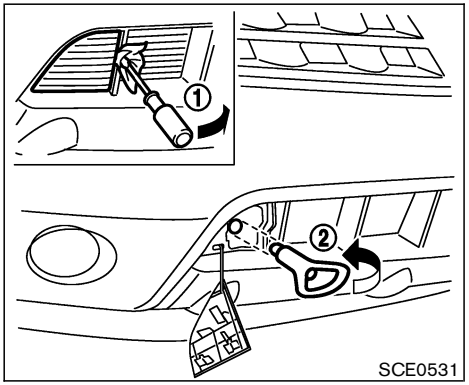
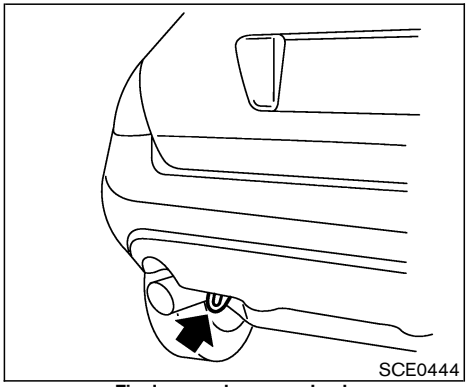


VEHICLE RECOVERY (Freeing a stuck vehicle)

(1) Remove the hook cover from the bumper using a suitable tool.

(2) Securely install the hook. (The hook is stored with jacking tools.)

Make sure that the hook is properly secured in the stored place after use.



Tie down and recovery hook

WARNING

- **Stand clear of a stuck vehicle.**
- **Do not spin your tires at high speed. This could cause them to explode and result in serious injury. Parts of your vehicle could also overheat and be damaged.**

CAUTION

- **Tow chains or cables must be attached only to the vehicle recovery hooks or main structural members of the vehicle. Otherwise, the vehicle body will be damaged.**
- **Never tow a vehicle using the vehicle tie downs or recovery hooks.**
- **Always pull the cable straight out from the front or rear of the vehicle. Never pull the vehicle at an angle.**
- **Pulling devices should be routed so they do not touch any part of the suspension, steering, brake or cooling systems.**
- **Pull devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.**

If your vehicle is stuck in sand, snow, mud, etc., use the following procedure:

1. Turn off the Vehicle Dynamic Control (VDC) system.

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2. Make sure the area in front and behind the vehicle is clear of obstructions.
3. Turn the steering wheel right and left to clear an area around the front tires.
4. Slowly rock the vehicle forward and backward.

- Shift back and forth between R (reverse) and D (drive).
- Apply the accelerator as little as possible to maintain the rocking motion.
- Release the accelerator pedal before shifting between R and D.
- Do not spin the tires above 35 MPH (55 km/h).

5. If the vehicle cannot be freed after a few tries, contact a professional towing service to remove the vehicle.

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7 Appearance and care

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CLEANING EXTERIOR

In order to maintain the appearance of your vehicle, it is important to take proper care of it.

In the following cases, please wash your vehicle as soon as possible to protect the paint surface.

- After a rainfall to prevent possible damage from acid rain
- After driving on coastal roads
- When contaminants such as soot, bird droppings, tree sap, metal particles or bugs get on the paint surface
- When dust or mud builds up on the surface

Whenever possible, store or park your vehicle inside a garage or in a covered area.

When it is necessary to park outside, park in a shady area or protect the vehicle with a body cover.

Be careful not to scratch the paint surface when putting on or removing the body cover.

WASHING

Wash dirt off the vehicle with a wet sponge and plenty of water. Clean the vehicle thoroughly using a mild soap, a special vehicle soap or a general purpose dishwashing liquid mixed with clean, lukewarm (never hot) water.

CAUTION

- **Do not use car washes that use acid in the detergent. Some car washes, especially brushless ones, use some acid for cleaning. The acid may react with some plastic vehicle components, causing them to crack. This could affect their appearance, and also could cause them not to function properly. Always check with your car wash to confirm that acid is not used.**
- **Do not use strong household soap, strong chemical detergents, gasoline or solvents.**
- **Do not wash the vehicle in direct sunlight or while the vehicle body is hot, as the surface may become water-spotted.**
- **Avoid using tight-napped or rough cloths, such as washing mitts. Care must be taken when removing caked-on dirt or other foreign substances so the paint surface is not scratched or damaged.**

Rinse the vehicle again with plenty of clean water.

Inside flanges, seams and folds on the doors, hatches and hood are particularly vulnerable to the effects of road salt. Therefore, these areas must be regularly cleaned. Make sure that the drain holes in the lower edge of the door are open. Spray water under the body and in the wheel wells to loosen the dirt and wash away road salt.

Avoid leaving water spots on the paint surface by using a damp chamois to dry the vehicle.

WAXING

Regular waxing protects the paint surface and helps retain new vehicle appearance. Polishing is recommended to remove built-up wax residue and to avoid a weathered appearance before reapplying wax.

A NISSAN dealer can assist you in choosing the proper product.

- Wax your vehicle only after a thorough washing. Follow the instructions supplied with the wax.
- Do not use a wax containing any abrasives, cutting compounds or cleaners that may damage the vehicle finish.

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Machine compounding or aggressive polishing on a base coat/clear coat paint finish may dull the finish or leave swirl marks.

REMOVING SPOTS

Remove tar and oil spots, industrial dust, insects, and tree sap as quickly as possible from the surface of the paint to avoid lasting damage or staining. Special cleaning products are available at a NISSAN dealer or any automotive accessory store.

UNDERBODY

In areas where road salt is used in winter, the underbody must be cleaned regularly. This will prevent dirt and salt from building up and causing underbody and suspension corrosion. Before the winter period and again in the spring, the underseal must be checked and, if necessary, re-treated.

GLASS

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner and a soft cloth will easily remove this film.

CAUTION

When cleaning the inside of the window, do not use sharp-edged tools, abrasive cleaners or chlorine-based disinfectant cleaners. They could damage the electrical conductors, radio antenna elements or rear window defroster elements.

ALUMINUM ALLOY WHEELS

Wash regularly with a sponge dampened in a mild soap solution, especially during winter months in areas where road salt is used. Salt could discolor the wheels if not removed.

CAUTION

Follow the directions below to avoid staining or discoloring the wheels:

- **Do not use a cleaner that uses strong acid or alkali contents to clean the wheels.**
- **Do not apply wheel cleaners to the wheels when they are hot. The wheel temperature should be the same as ambient temperature.**
- **Rinse the wheel to completely remove the cleaner within 15 minutes after the cleaner is applied.**

CHROME PARTS

Clean all chrome parts regularly with a non-abrasive chrome polish to maintain the finish.

TIRE DRESSING

NISSAN does not recommend the use of tire dressings. Tire manufacturers apply a coating to the tires to help reduce discoloration of the rubber. If a tire dressing is applied to the tires, it may react with the coating and form a compound. This compound may come off the tire while driving and stain the vehicle paint.

If you choose to use a tire dressing, take the following precautions:

- Use a water-based tire dressing. The coating on the tire dissolves more easily with an oil-based tire dressing.
- Apply a light coat of tire dressing to help prevent it from entering the tire tread/grooves

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(where it would be difficult to remove).

- Wipe off excess tire dressing using a dry towel. Make sure the tire dressing is completely removed from the tire tread/grooves.
- Allow the tire dressing to dry as recommended by tire dressing manufacturer.

Occasionally remove loose dust from the interior trim, plastic parts and seats using a vacuum cleaner or soft bristled brush. Wipe the vinyl and leather surfaces with a clean, soft cloth dampened in mild soap solution, then wipe clean with a dry soft cloth.

Regular care and cleaning is required in order to maintain the appearance of the leather.

Before using any fabric protector, read the manufacturer's recommendations. Some fabric protectors contain chemicals that may stain or bleach the seat material.

Use a cloth dampened only with water, to clean the meter and gauge lens.

CAUTION

- **Never use benzine, thinner, or any similar material.**
- **Small dirt particles can be abrasive and damaging to leather surfaces and should be removed promptly. Do not use saddle soap, car waxes, polishes, oils, cleaning fluids, solvents, detergents or ammonia-based cleaners as they may damage the natural leather finish.**
- **Never use fabric protectors unless recommended by the manufacturer.**
- **Do not use glass or plastic cleaner on meter or gauge lens covers. It may damage the lens cover.**

FLOOR MATS

The use of Genuine NISSAN floor mats can extend the life of your vehicle carpet and make it easier to clean the interior. **No matter what mats are used, be sure they are fitted for your vehicle and are properly positioned in the footwell to prevent interference with pedal operation.** Mats should be maintained with regular cleaning and replaced if they become excessively worn.

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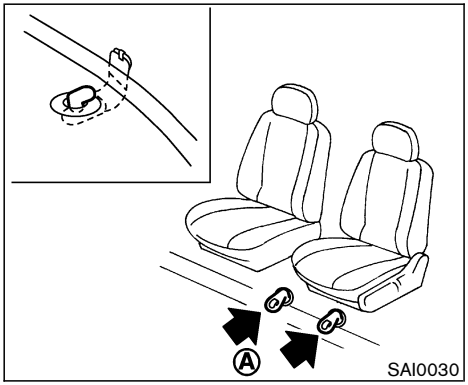

Floor mat positioning aid (Driver side only)

This model includes a front floor mat bracket (A) to act as a floor mat positioning aid. NISSAN floor mats have been specially designed for your vehicle model. The driver's side floor mat has a grommet hole incorporated in it. Simply position the mat by placing the floor mat bracket through the floor mat grommet hole while centering the mat in the floorpan contour.

Periodically check to make certain that the mats are properly positioned.

SEAT BELTS

The seat belts can be cleaned by wiping them with a sponge dampened in a mild soap solution. Allow the belts to dry completely before using them.

WARNING

Do not allow wet seat belts to roll up in the retractor. NEVER use bleach, dye or chemical solvents to clean the seat belts, since these materials may severely weaken the seat belt webbing.

MOST COMMON FACTORS CONTRIBUTING TO VEHICLE CORROSION:

- The accumulation of moisture-retaining dirt and debris in body panel sections, cavities, and other areas.
- Damage to paint and other protective coatings caused by gravel and stone chips or minor traffic accidents.

ENVIRONMENTAL FACTORS INFLUENCE THE RATE OF CORROSION:

Moisture

Accumulation of sand, dirt and water on the vehicle body underside can accelerate corrosion. Wet floor coverings will not dry completely inside the vehicle, and should be removed for drying to avoid floor panel corrosion.

Relative humidity

Corrosion will be accelerated in areas of high relative humidity, especially those areas where the temperatures stay above freezing and where atmospheric pollution exists and road salt is used.

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Temperature

A temperature increase will accelerate the rate of corrosion to those parts which are not well ventilated.

Air pollution

Industrial pollution, the presence of salt in the air in coastal areas, or heavy road salt use will accelerate the corrosion process. Road salt will also accelerate the disintegration of paint surfaces.

TO PROTECT YOUR VEHICLE FROM CORROSION:

- Wash and wax your vehicle often to keep the vehicle clean.
- Always check for minor damage to the paint and repair it as soon as possible.
- Keep drain holes at the bottom of the doors open to avoid water accumulation.
- Check the underbody for accumulation of sand, dirt or salt. If present, wash with water as soon as possible.

⚠ CAUTION

- **NEVER remove dirt, sand or other debris from the passenger compartment by washing it out with a hose. Remove dirt with a vacuum cleaner or broom.**
- **Never allow water or other liquids to come in contact with electronic components inside the vehicle as this may damage them.**

Chemicals used for road surface de-icing are extremely corrosive. They accelerate corrosion and deterioration of underbody components such as the exhaust system, fuel and brake lines, brake cables, floorpan and fenders.

In winter, the underbody must be cleaned periodically.

For additional protection against rust and corrosion, which may be required in some areas, consult a NISSAN dealer.

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MAINTENANCE REQUIREMENTS

Your new NISSAN has been designed to have minimum maintenance requirements with longer service intervals to save you both time and money. However, some day-to-day and regular maintenance is essential to maintain your NISSAN's good mechanical condition, as well as its emission and engine performance.

It is the owner's responsibility to make sure that scheduled maintenance, as well as general maintenance, is performed.

As the vehicle owner, you are the only one who can ensure that your vehicle receives the proper maintenance care. You are a vital link in the maintenance chain.

Scheduled maintenance:

For your convenience, both required and optional scheduled maintenance items are described and listed in your "Service and Maintenance Guide". You must refer to that guide to ensure that necessary maintenance is performed on a NISSAN at regular intervals.

General maintenance:

General maintenance includes those items which should be checked during normal day-to-day operation. They are essential for proper vehicle operation. It is your responsibility to perform these procedures regularly as prescribed.

Performing general maintenance checks require minimal mechanical skill and only a few general automotive tools.

These checks or inspections can be done by yourself, a qualified technician or, if you prefer, a NISSAN dealer.

Where to go for service:

If maintenance service is required or your vehicle appears to malfunction, have the systems checked and tuned by a NISSAN dealer.

NISSAN technicians are well-trained specialists and are kept up to date with the latest service information through technical bulletins, service tips, and in-dealership training programs. They are completely qualified to work on NISSAN vehicles **before** they work on your vehicle, rather than after they have worked on it.

You can be confident that a NISSAN dealer's service department performs the best job to meet the maintenance requirements of your vehicle — in a reliable and economic way.

GENERAL MAINTENANCE

During the normal day-to-day operation of the vehicle, general maintenance should be performed regularly as prescribed in this section. If you detect any unusual sounds, vibrations or smell, be sure to check for the cause or have a NISSAN dealer check it promptly. In addition, you should notify a NISSAN dealer if you think that repairs are required.

When performing any checks or maintenance work, closely observe the "Maintenance precautions" later in this section.

EXPLANATION OF GENERAL MAINTENANCE ITEMS

Additional information on the following items with "*" is found later in this section.

Outside the vehicle

The maintenance items listed here should be performed from time to time, unless otherwise specified.

Doors and engine hood: Check that all doors and the engine hood operate smoothly. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released.

When driving in areas using road salt or other corrosive materials, check lubrication frequently.

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Lights*: Clean the headlights on a regular basis. Make sure that the headlights, stop lights, tail lights, turn signal lights, and other lights are all operating properly and installed securely. Also check headlight aim.

Road wheel nuts (lug nuts)*: When checking the tires, make sure no wheel nuts are missing, and check for any loose wheel nuts. Tighten if necessary.

Tire rotation*: Tires should be rotated every 7,500 miles (12,000 km). However, the timing for tire rotation may vary according to your driving habits and road surface conditions.

Tires*: Check the pressure with a gauge often and always prior to long distance trips. If necessary, adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.

Tire, wheel alignment and balance: If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment.

If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.

For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.

Windshield: Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Have a damaged windshield repaired by a qualified repair facility.

Windshield wiper blades*: Check for cracks or wear if they do not wipe properly.

Inside the vehicle

The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance, cleaning the vehicle, etc.

Accelerator pedal: Check the pedal for smooth operation and make sure the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.

Brake pedal: Check the pedal for smooth operation. If the brake pedal suddenly goes down further than normal, the pedal feels spongy or the vehicle seems to take longer to stop, see a NISSAN dealer immediately. Keep the floor mat away from the pedal.

Brakes: Check that the brakes do not pull the vehicle to one side when applied.

Continuously Variable Transmission (CVT) P (Park) position mechanism: On a fairly steep hill check that the vehicle is held securely with the selector lever in the P (Park) position without applying any brakes.

Parking brake: Check the parking brake operation regularly. The vehicle should be securely held on a fairly steep hill with only the parking brake applied. If the parking brake needs to be adjusted, see a NISSAN dealer.

Seat belts: Check that all parts of the seat belt system (for example, buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.

Seats: Check seat position controls such as seat adjusters, seatback recliner, etc. to ensure they operate smoothly and that all latches lock securely in every position. Check that the head restraints move up and down smoothly and that the locks hold securely in all latched positions.

Steering wheel: Check for changes in the steering conditions, such as excessive free play, hard steering or strange noises.

Warning lights and chimes: Make sure that all warning lights and chimes are operating properly.

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Windshield defroster: Check that the air comes out of the defroster outlets properly and in good quantity when operating the heater or air conditioner.

Windshield wiper and washer*: Check that the wipers and washer operate properly and that the wipers do not streak.

Under the hood and the vehicle

The maintenance items listed here should be checked periodically (for example, each time you check the engine oil or refuel).

Battery*: Check the fluid level in each cell. It should be between the MAX and MIN lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

Brake fluid level*: Make sure that the brake fluid level is between the MAX and MIN lines on the reservoir.

Engine coolant level*: Check the coolant level when the engine is cold.

Engine drive belts*: Make sure that no belt is frayed, worn, cracked or oily.

Engine oil level*: Check the level on the dipstick after parking the vehicle on a level spot and turning off the engine.

Exhaust system: Make sure there are no loose supports, cracks or holes. If the sound of the exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the trouble and correct it. (See “Precautions when starting and driving” in the “5. Starting and driving” section for exhaust gas (carbon monoxide).)

Fluid leaks: Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or if gasoline fumes are evident, check for the cause and have it corrected immediately.

Power steering fluid level* and lines: Check the level in the reservoir tank with the engine off. Check the lines for proper attachment, leaks, cracks, etc.

Radiator and hoses: Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks, deformation, deterioration or loose connections.

Underbody: The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances, otherwise rust will form on the floorpan, frame, fuel lines and around the exhaust system. At the end of winter, the underbody should be thoroughly flushed with plain water, being careful to clean those areas where mud and dirt may accumulate. For additional information, see “Cleaning exterior” in the “7. Appearance and care” section.

Windshield washer fluid*: Check that there is adequate fluid in the tank.

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MAINTENANCE PRECAUTIONS

When performing any inspection or maintenance work on your vehicle, always take care to prevent serious accidental injury to yourself or damage to the vehicle. The following are general precautions which should be closely observed.

WARNING

- **Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. Move the selector lever to the P (Park) position.**
- **Be sure the ignition key is in the OFF or LOCK position when performing any parts replacement or repairs.**
- **Your vehicle is equipped with an automatic engine cooling fan. It may come on at any time without warning, even if the ignition key is in the OFF position and the engine is not running. To avoid injury, always disconnect the negative battery cable before working near the fan.**
- **If you must work with the engine running, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.**
- **It is advisable to secure or remove any loose clothing and remove any jewelry, such as rings, watches, etc. before working on your vehicle.**
- **Always wear eye protection whenever you work on your vehicle.**
- **If you must run the engine in an enclosed space such as a garage, be sure there is proper ventilation for exhaust gases to escape.**
- **Never get under the vehicle while it is supported only by a jack. If it is necessary to work under the vehicle, support it with safety stands.**
- **Keep smoking materials, flame and sparks away from fuel tank and battery.**
- **On gasoline engine models with the Multiport Fuel Injection (MFI) System, the fuel filter or fuel lines should be serviced by a NISSAN dealer because the fuel lines are under high pressure even when the engine is off.**

CAUTION

- **Do not work under the hood while the engine is hot. Turn the engine off and wait until it cools down.**
- **Never connect or disconnect the battery or any transistorized component while the ignition switch is in the ON position.**
- **Never leave the engine or the CVT related component harness connector disconnected while the ignition switch is in the ON position.**
- **Avoid contact with used engine oil and coolant. Improperly disposed engine oil, engine coolant and/or other vehicle fluids can damage the environment. Always conform to local regulations for disposal of vehicle fluid.**

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This “8. Maintenance and do-it-yourself” section gives instructions regarding only those items which are relatively easy for an owner to perform.

A genuine NISSAN Service Manual is also available. See “Owner’s Manual/Service Manual order information” in the “9. Technical and consumer information” section.

You should be aware that incomplete or improper servicing may result in operating difficulties or excessive emissions, and could affect your warranty coverage. **If in doubt about any servicing, have it done by a NISSAN dealer.**

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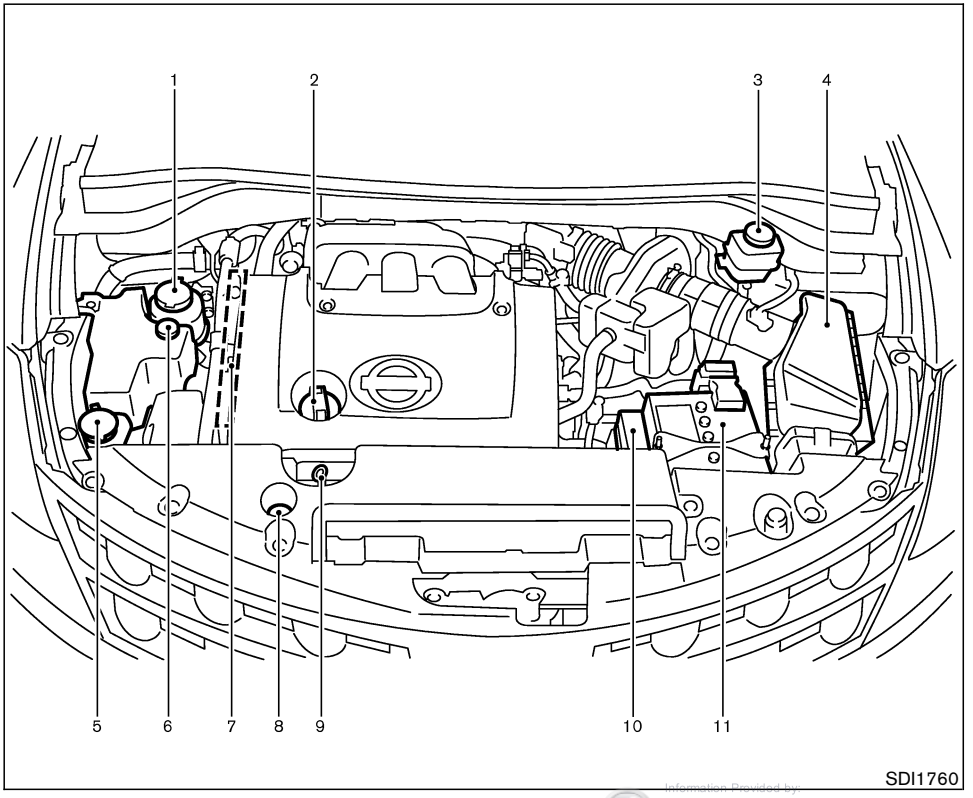
ENGINE COMPARTMENT CHECK LOCATIONS



1. Power steering fluid reservoir
2. Engine oil filler cap
3. Brake fluid reservoir
4. Air cleaner
5. Windshield washer fluid reservoir
6. Engine coolant reservoir
7. Drive belts
8. Radiator filler cap
9. Engine oil dipstick
10. Fuse/fusible link holder
11. Battery

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ENGINE COOLING SYSTEM

The engine cooling system is filled at the factory with a high-quality, year-round, antifreeze coolant solution. The antifreeze solution contains rust and corrosion inhibitors, therefore additional cooling system additives are not necessary.

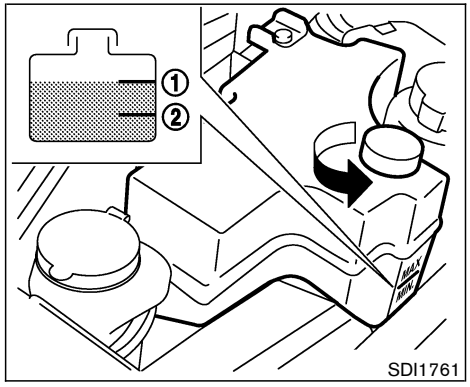
⚠ WARNING

- **Never remove the radiator cap when the engine is hot. Wait until the engine and radiator cool down. Serious burns could be caused by high pressure fluid escaping from the radiator. Wait until the engine and radiator cool down.**
- **See “If your vehicle overheats” in the “In case of emergency” section of this manual.**
- **The radiator is equipped with a pressure type radiator cap. To prevent engine damage, use only a genuine NISSAN radiator cap.**

⚠ CAUTION

When adding or replacing coolant, be sure to use only a Genuine NISSAN Long Life Antifreeze/Coolant (green) or equivalent with the proper mixture ratio of 50% anti-freeze and 50% demineralized or distilled water. The use of other types of engine coolant may damage the cooling system.

Outside temperature down to		Anti-freeze	Demineralized water/ distilled water
°C	°F		
−35	−30	50%	50%



CHECKING ENGINE COOLANT LEVEL

Check the coolant level in the reservoir tank when the engine is cold. If the coolant level is below MIN (2), open the reservoir tank cap and add coolant up to the MAX (1) level. If the reservoir tank is empty, add the coolant to the reservoir tank up to the MAX (1) level.

If the engine cooling system frequently requires coolant, have it checked by a NISSAN dealer.

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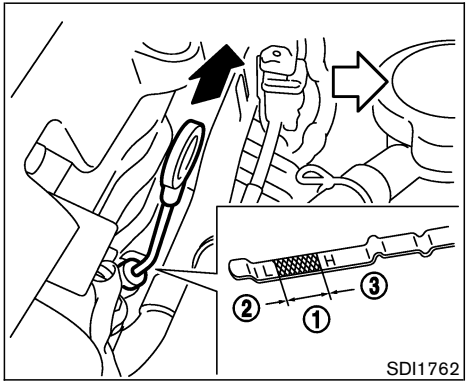
CHANGING ENGINE COOLANT

Contact a NISSAN dealer if replacement is required.

- Major cooling system repairs should be performed by a NISSAN dealer. The service procedures can be found in the appropriate NISSAN Service Manual.
- Improper servicing can result in reduced heater performance and engine overheating.

WARNING

- **To avoid being scalded, never change the coolant when the engine is hot.**
- **Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.**
- **Avoid direct skin contact with used coolant. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep coolant out of reach of children and pets.**



CHECKING ENGINE OIL LEVEL

1. Park the vehicle on a level surface and apply parking brake.
2. Run the engine until it reaches operating temperature.
3. Turn off the engine. **Wait more than 10 minutes for the oil to drain back into the oil pan.**
4. Remove the dipstick as illustrated and wipe it clean. Reinsert it all the way.
5. Remove the dipstick again and check the oil level. It should be between the H and L marks (1). If the oil level is below the L mark (2), remove the oil filler cap and pour recommended oil through the opening. **Do not overfill (3).**
6. Recheck oil level with dipstick.

It is normal to add some oil between oil maintenance intervals or during the break-in period, depending on the severity of operating conditions.

CAUTION

Oil level should be checked regularly. Operating the engine with an insufficient amount of oil can damage the engine, and such damage is not covered by warranty.

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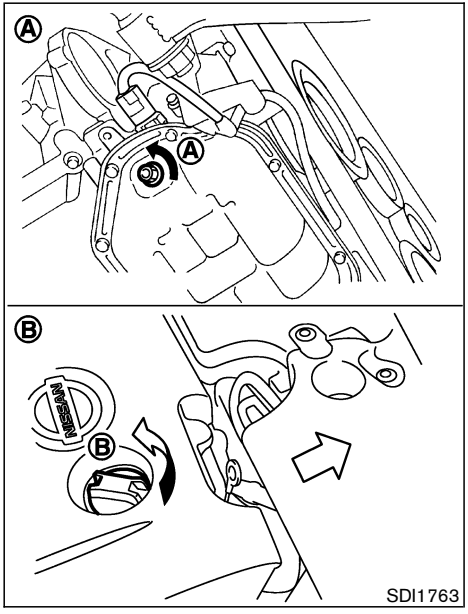

CHANGING ENGINE OIL

Change the engine oil and filter according to the maintenance log shown in the Service and Maintenance Guide.

1. Park the vehicle on a level surface and apply the parking brake.
2. Run the engine until it reaches operating temperature.
3. Turn the engine off and **wait more than 10 minutes**.
4. Place a large drain pan under the drain plug Ⓐ (under the body).
5. Remove the oil filler cap Ⓑ (inside the engine compartment).
6. Remove the drain plug Ⓐ with a wrench and completely drain the oil.

   If oil filter is to be changed, remove and replace it at this time. See later in “Engine oil” for changing engine oil filter.

CAUTION

Be careful not to burn yourself, as the engine oil is hot.

- **Waste oil must be disposed of properly.**
- **Check your local regulations.**

7. Clean and re-install the drain plug with a new washer. Securely tighten the drain plug with a wrench.

   Drain plug tightening torque:

   22 to 29 ft-lb (29 to 39 N·m)

   Do not use excessive force.
8. Refill engine with recommended oil and install the cap securely.

CAUTION

Never pull out the oil level gauge while filling engine oil.

   See “Capacities and recommended fuel/lubricants” in the “9. Technical and consumer information” section for drain and refill capacity. The drain and refill capacity depends on the oil temperature and drain time. Use these specifications for reference only. Always use the dipstick to determine the proper amount of oil in the engine.
9. Start the engine.

   Check for leakage around the drain plug. Correct as required.
10. Turn the engine off and **wait more than 10 minutes**. Check the oil level with the dip-

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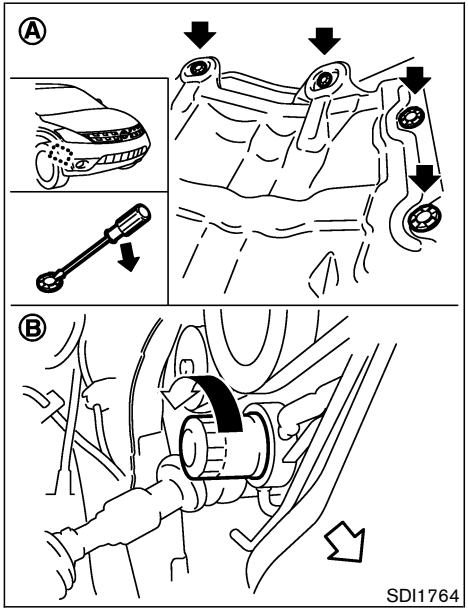
stick. Add engine oil if necessary.

11. Dispose of waste oil properly.

WARNING

- **Prolonged and repeated contact with used engine oil may cause skin cancer.**
- **Try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep used engine oil out of reach of children.**



CHANGING ENGINE OIL FILTER

1. Park the vehicle on a level surface and apply the parking brake.
2. Turn the engine off.

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3. Remove the cover with a suitable tool as illustrated Ⓐ.
4. Loosen the oil filter Ⓑ with an oil filter wrench. Remove the oil filter by turning it by hand.

CAUTION

Be careful not to burn yourself, as the engine oil may be hot.

5. Wipe the engine oil filter mounting surface with a clean rag.

   Be sure to remove any old rubber gasket remaining on the mounting surface of the engine.
6. Coat the rubber gasket on the new filter with clean engine oil.
7. Screw in the oil filter until a slight resistance is felt, then tighten additionally more than 2/3 turn.

   Oil filter tightening torque:

   11 to 15 ft-lb (15 to 20 N·m)
8. Reinstall the cover.
9. Start the engine and check for leakage

around the oil filter. Correct as required.

10. Turn the engine off and wait several minutes. Check the oil level. Add engine oil if necessary.

CVT FLUID

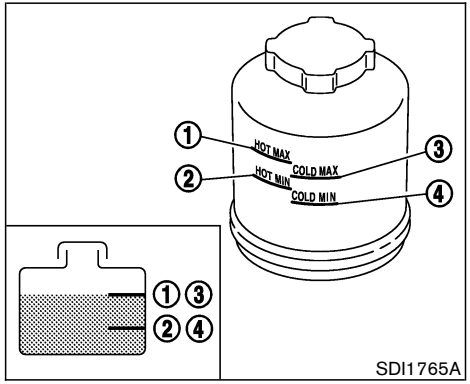
Contact a NISSAN dealer if checking or replacement is required.

CAUTION

- **Use only Genuine NISSAN CVT Fluid NS-2. Do not mix with other fluids.**
- **Using transmission fluid other than Genuine NISSAN CVT Fluid NS-2 will damage the CVT transmission, which is not covered by the NISSAN new vehicle limited warranty.**

The specified CVT fluid is also described on caution labels located in the engine compartment.

POWER STEERING FLUID



Check the fluid level in the reservoir tank.

The fluid level should be checked using the HOT range (1: HOT MAX., 2: HOT MIN.) at fluid temperatures of 122 to 176°F (50 to 80°C) or using the COLD range (3: COLD MAX., 4: COLD MIN.) at fluid temperatures of 32 to 86°F (0 to 30°C).

CAUTION

- **Do not overfill.**
- **Use Genuine NISSAN PSF or equiva-**

Information Provided by: DEALER E-PROCESS

BRAKE FLUID

lent.

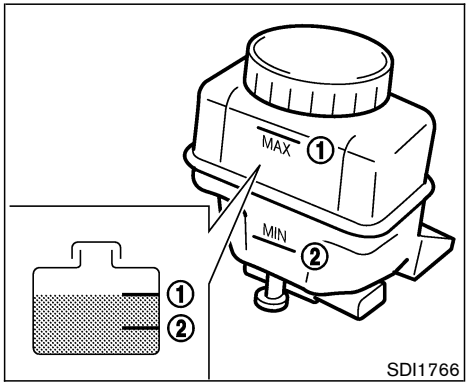
For additional brake fluid specification information, refer to “Capacities and recommended fuel/lubricants” in the “9. Technical and consumer information” section of this manual.

WARNING

Old, inferior or contaminated fluid may damage the brake system. The use of improper fluids can damage the brake system and affect the vehicle’s stopping ability.

CAUTION

Do not spill the fluid on any painted surfaces. This will damage the paint. If fluid is spilled, immediately wash the surface with water.



Check the fluid level in the reservoir. If the fluid is below the MIN line (2) or the brake warning light comes on, add Genuine NISSAN Super Heavy Duty Brake Fluid or equivalent **DOT 3** fluid up to the MAX line (1). If fluid must be added frequently, the system should be thoroughly checked by a NISSAN dealer.

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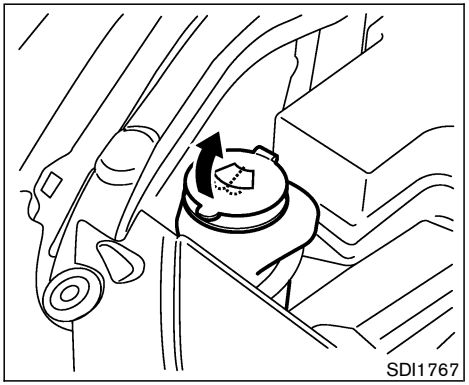
WINDOW WASHER FLUID



Add fluid when the low washer fluid warning light comes on. Add a washer solvent to the water for better cleaning. In the winter season, add a windshield washer antifreeze. Follow the manufacturer's instructions for the mixture ratio.

Recommended fluid is Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze Fluid or equivalent.

WARNING

Antifreeze is poisonous and should be stored carefully in marked containers out of the reach of children.

CAUTION

Do not substitute engine anti-freeze coolant for window washer solution. This may result in damage to the paint.

BATTERY

- Keep the battery surface clean and dry. Any corrosion should be washed off with a solution of baking soda and water.
- Make certain the terminal connections are clean and securely tightened.
- If the vehicle is not to be used for 30 days or longer, disconnect the (—) negative battery terminal cable to prevent discharging it.

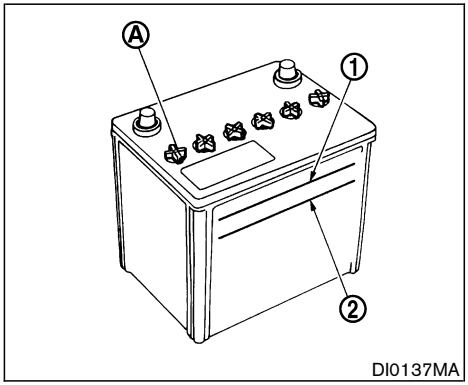
WARNING

- **Do not expose the battery to flames or electrical sparks. Hydrogen gas, generated by battery fluid, is explosive. Do not allow battery fluid to contact your skin, eyes, fabrics, or painted surfaces. After touching a battery or battery cap, do not touch or rub your eyes. Thoroughly wash your hands. If the acid contacts your eyes, skin or clothing, immediately flush with water for at least 15 minutes and seek medical attention.**
- **Battery posts, terminals and related accessories contain lead and lead**

Information Provided by: DEALER E-PROCESS

compounds. Wash hands after handling.

- **Do not operate the vehicle if the fluid in the battery is low. Low battery fluid can cause a higher load on the battery which can generate heat, reduce battery life, and in some cases lead to an explosion.**
- **When working on or near a battery, always wear suitable eye protection and remove all jewelry.**
- **Keep the battery out of the reach of children.**



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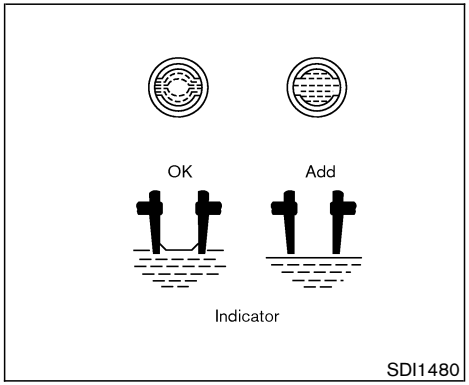
Check the fluid level in each cell. It should be between the UPPER LEVEL (1) and LOWER LEVEL (2) lines.

If the side of the battery is not visible, the electrolyte level can be checked through each filler opening as illustrated.

If it is necessary to add fluid, add only distilled water to bring the level to the indicator in each filler opening. **Do not overfill.**

Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

1. Remove the cell plugs (A).



SDI1480

2. Add distilled water up to the UPPER LEVEL (1).
3. Tighten cell plugs (A).

JUMP STARTING

If jump starting is necessary, see “Jump starting” in the “6. In case of emergency” section. If the engine does not start by jump starting, the battery may have to be replaced. Contact a NISSAN dealer.

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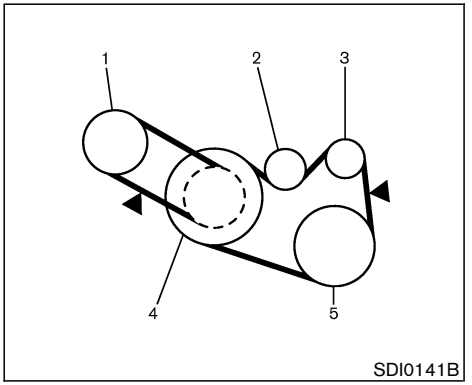
DRIVE BELTS



WARNING

Be sure the ignition key is in the OFF or LOCK position. The engine could rotate unexpectedly.

1. Power steering oil pump
2. Idler pulley
3. Alternator
4. Crankshaft pulley
5. Air conditioner compressor

▼: Tension checking points

Visually inspect each belt for signs of unusual wear, cuts, fraying, oil adhesion or looseness. If the belt is in poor condition or loose, have it replaced or adjusted by a NISSAN dealer.

Have the belts checked regularly for condition and tension.

SPARK PLUGS

WARNING

Be sure the engine and ignition switch are off and that the parking brake is engaged securely.

CAUTION

Be sure to use the correct socket to remove the spark plugs. An incorrect socket can damage the spark plugs.

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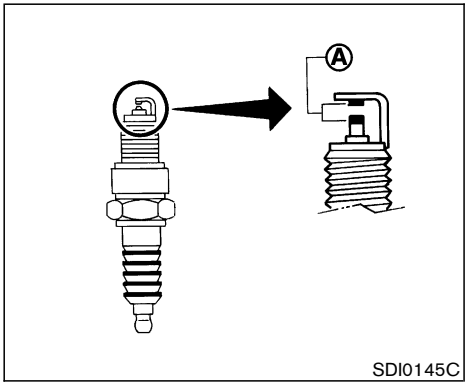


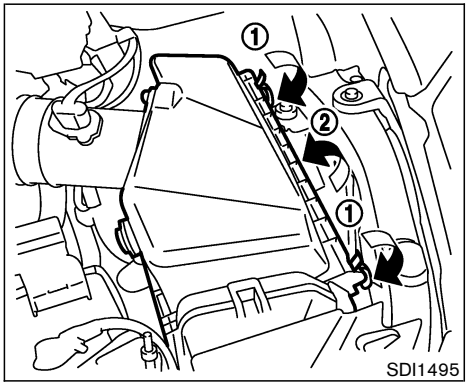
REPLACING SPARK PLUGS

Platinum-tipped spark plugs

It is not necessary to replace the platinum-tipped Ⓐ spark plugs as frequently as the conventional type spark plugs since they will last much longer. Follow the maintenance log, but do not reuse them by cleaning or regapping.

If replacement is required, see a NISSAN dealer for servicing.

Always replace with recommended platinum-tipped spark plugs.



To remove the filter from the air cleaner, push down the lock pins ① and pull the unit upward ②.

The filter element should not be cleaned and reused. Replace it according to the maintenance log shown in the separate Service and Maintenance Guide. When replacing the filter, wipe the inside of the air cleaner housing and the cover with a damp cloth.

WARNING

- **Operating the engine with the air cleaner removed can cause you or others to be burned. The air cleaner not only cleans the air, it stops the flame if the engine backfires. If it isn't there, and the engine backfires, you could be burned. Do not drive with the air cleaner removed, and be careful when working on the engine with the air cleaner removed.**
- **Never pour fuel into the throttle body or attempt to start the engine with the air cleaner removed. Doing so could result in serious injury.**

Information Provided by:
DEALER E-PROCESS

WINDSHIELD WIPER BLADES

CAUTION

- **After wiper blade replacement, return the wiper arm to its original position.**

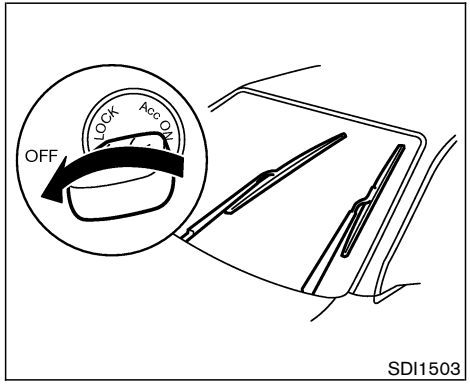
  Otherwise it may be damaged when the engine hood is opened.
- **Make sure the wiper blade contact the glass, otherwise the arms may be damaged from wind pressure.**
- **Worn windshield wiper blades can damage the windshield and impair driver vision.**

CLEANING

If your windshield is not clear after using the windshield washer or if a wiper blade chatters when running, wax or other material may be on the blade or windshield.

Clean the outside of the windshield with a washer solution or a mild detergent. Your windshield is clean if beads do not form when rinsing with clear water.

Clean the blade by wiping it with a cloth soaked in a washer solution or a mild detergent. Then rinse the blade with clear water. If your windshield is still not clear after cleaning the blades and using the wiper, replace the blades.



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REPLACING

Replace the wiper blades if they are worn.

1. Turn the ignition switch to the ON position and the windshield wiper switch ON. Turn the ignition switch OFF when the wiper is in the fully up position. The wiper will stop as illustrated.

The wiper should be in the fully up position to avoid scratching the engine hood or wiper arm.

2. Pull the wiper arm up.

Hold the wiper arm to avoid hitting the

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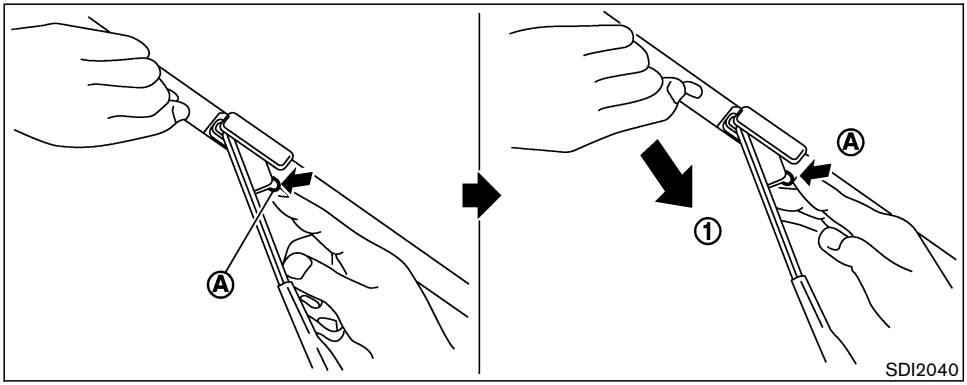
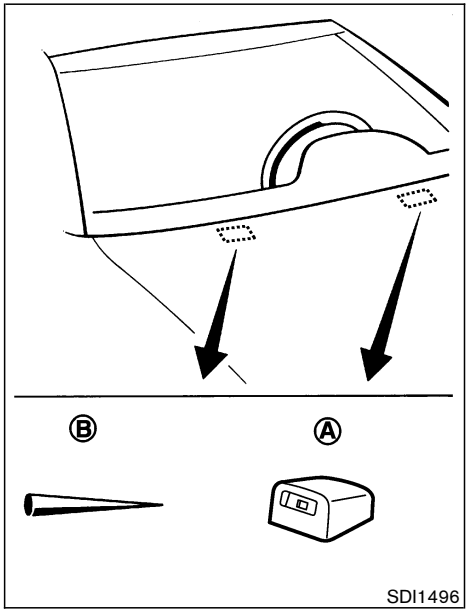


windshield and damaging the glass.

3. Push the release tab (A), and then move the wiper blade down the wiper arm (1) while pushing the release tab to remove.
4. Insert the new wiper blade to the wiper arm until a click sounds.



If you wax the surface of the hood, be careful not to let wax get into the washer nozzle. This may clog the nozzle (A) that could cause improper windshield washer operation. If wax gets into the nozzle, unclog it with a needle or small pin (B).

Information Provided by:
DEALER E-PROCESS

REAR WINDOW WIPER BLADE

Contact a NISSAN dealer if checking or replacement is required.

BRAKES

SELF-ADJUSTING BRAKES

Your vehicle is equipped with self-adjusting brakes.

The disc-type brakes self-adjust every time the brake pedal is applied.

WARNING

See a NISSAN dealer and have it checked if the brake pedal height does not return to normal.

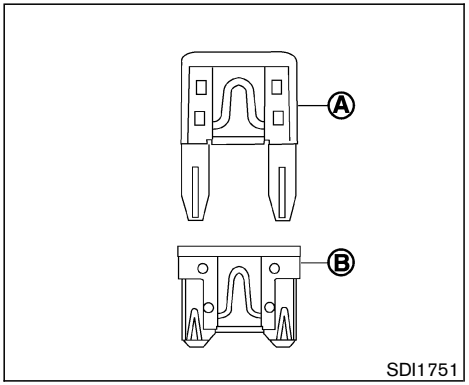
BRAKE PAD WEAR INDICATORS

The disc brake pads on your vehicle have audible wear indicators. When a brake pad requires replacement, it will make a high pitched scraping or screeching sound when the vehicle is in motion whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the wear indicator sound is heard.

Under some driving or climate conditions, occasional brake squeak, squeal or other noise may be heard. Occasional brake noise during light to moderate stops is normal and does not affect the function or performance of the brake system.

Proper brake inspection intervals should be followed. For additional information, see the separate Service and Maintenance Guide.

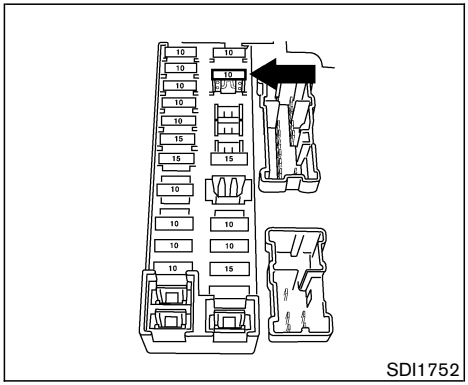
FUSES



Some vehicles are equipped with engine compartment and passenger compartment fuse boxes that use only type Ⓐ fuses. Other vehicles are equipped with type Ⓐ fuses in the engine compartment fuse box and type Ⓑ fuses in the passenger compartment fuse box.

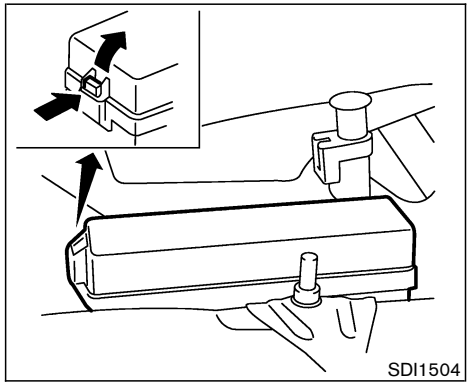
Type Ⓐ fuses are provided as spare fuses. They are stored in the passenger compartment fuse box.

Type Ⓐ fuses can be installed in the engine compartment and passenger compartment fuse boxes.



If a type Ⓐ fuse is used to replace a type Ⓑ fuse, the type Ⓐ fuse will not be level with the fuse pocket as shown in the illustration. This will not affect the performance of the fuse. Make sure the fuse is installed in the fuse box securely.

Type Ⓑ fuses cannot be installed in the underhood fuse boxes. Only use type Ⓐ fuses in the underhood fuse boxes.

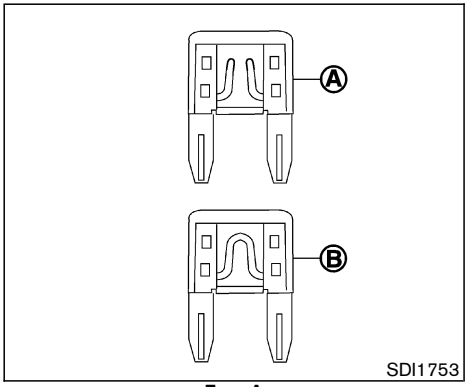


ENGINE COMPARTMENT

⚠ CAUTION

Never use a fuse of a higher or lower amperage rating than that specified on the fuse box cover. This could damage the electrical system or cause a fire.

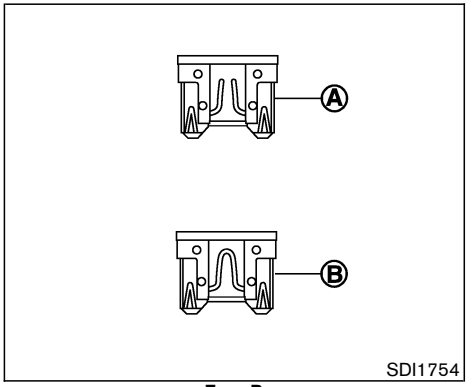
Information Provided by:
DEALER E-PROCESS



Type A

If any electrical equipment does not operate, check for an open fuse.

1. Be sure the ignition switch and headlight switch are OFF.
2. Open the engine hood.
3. Remove the fusible link cover.
4. Remove the fuse with the fuse puller.
5. If the fuse is open (A), replace it with a new fuse (B).
6. If a new fuse also opens, have the electrical system checked and repaired by a NISSAN dealer.



Type B

Fusible links

If any electrical equipment does not operate and fuses are in good condition, check the fusible links. If any of these fusible links are melted, replace only with genuine NISSAN parts.

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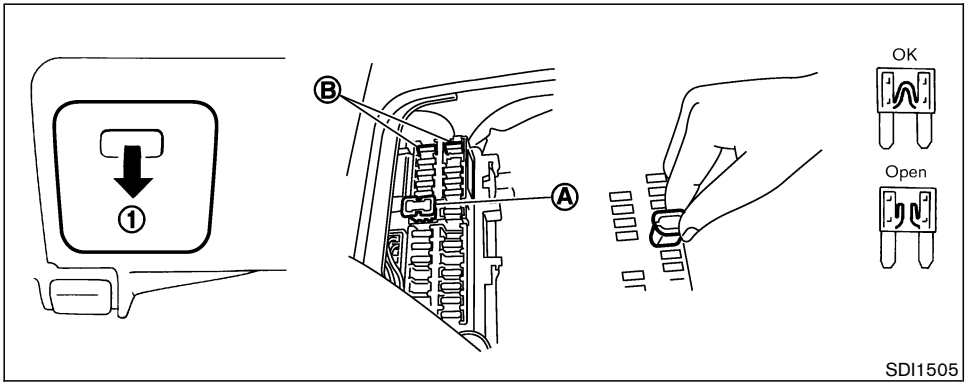


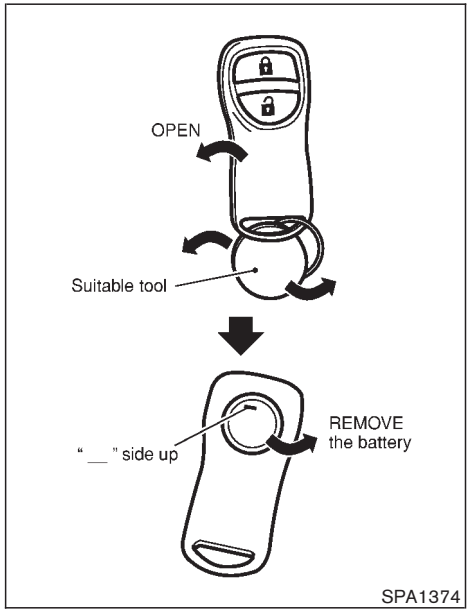
PASSENGER COMPARTMENT

CAUTION

Never use a fuse of a higher or lower amperage rating than that specified on the fuse box cover. This could damage the electrical system or cause a fire.

If any electrical equipment does not operate, check for an open fuse.

1. Be sure the ignition switch and the headlight switch are OFF.
2. Pull to open the fuse box lid (1).
3. Pinch the fuse perpendicularly with the fuse puller (A) and pull it out.
4. If the fuse is open, replace it with a new fuse (B).
5. If a new fuse also opens, have the electrical system checked and repaired by a NISSAN dealer.



KEYFOB

Replace the battery as follows:

1. Open the lid using a suitable tool.
2. Replace the battery with a new one.

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DEALER E-PROCESS

Recommended battery: Sanyo CR2025 or equivalent

Make sure that the ⊕ side faces the bottom case.

3. Close the lid securely.
4. Push the keyfob button two or three times to check its operation.

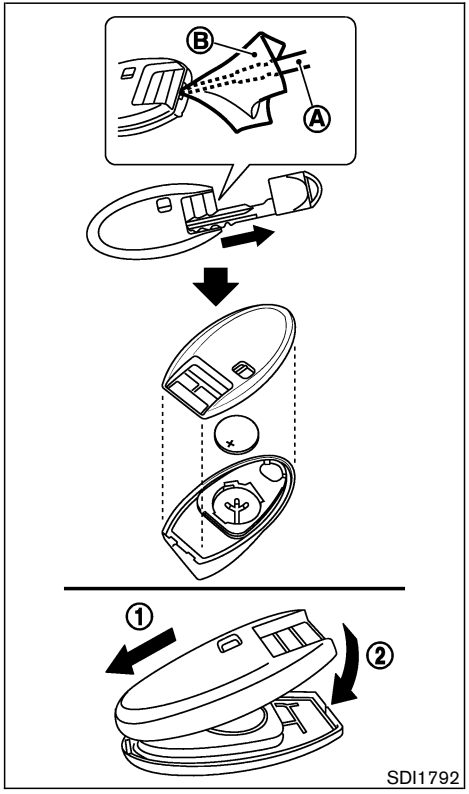
See a NISSAN dealer if you need any assistance for replacement.

If the battery is removed for any reason other than replacement, perform step 4 above.

- **Be careful not to touch a circuit board and a battery terminal.**
- **An improperly disposed battery can harm the environment. Always confirm local regulations for battery disposal.**
- **The keyfob is water-resistant; however, if it does get wet, immediately wipe completely dry.**
- **When changing batteries, do not let dust or oil get on the keyfob.**

FCC Notice:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules and RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.



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Information Provided by:
DEALER E-PROCESS

INTELLIGENT KEY

CAUTION

Be careful not to allow children to swallow the battery and removed parts.

Replace the battery as follows:

1. Release the lock knob at the back of the intelligent key and remove the mechanical key.
2. Insert a flat-blade screwdriver (A) wrapped with a cloth into the slit (B) of the corner and twist it to separate the upper part from the lower part.
3. Replace the battery with a new one.

- Do not touch the internal circuit and electric terminals as it could cause a malfunction.

  Recommended battery: CR2025 or equivalent

  Make sure that the ⊕ side faces the bottom of the case.

4. Close the lid securely as illustrated (1) (2).
5. Push the buttons two or three times to check its operation.

See a NISSAN dealer if you need any assistance for replacement.

If the battery is removed for any reason other than replacement, perform step 5 above.

- **Be careful not to touch the circuit board and the battery terminal.**
- **An improperly disposed battery can harm the environment. Always confirm local regulations for battery disposal.**
- **When changing batteries, do not let dust or oil get on the Intelligent Key.**

FCC Notice:

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to part 15 of the FCC Rules (the certification number). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna

— Increase the separation between the equipment and the receiver

— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

— Consult the dealer or an experienced radio/TV technician for help.

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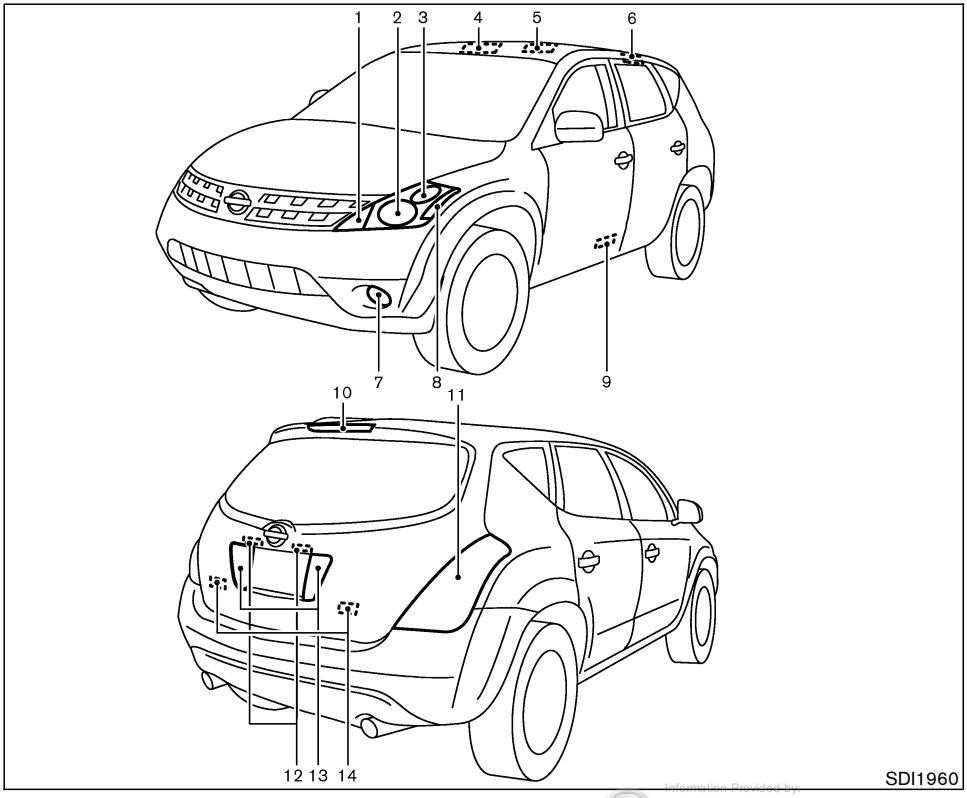


1. Front turn signal light or front park light
2. Headlight (low-beam, high-beam)
3. Front park light or front turn signal light
4. Map light
5. Ceiling light
6. Rear personal light
7. Front fog light (if so equipped)/Daytime, running light (for Canada)
8. Front side marker light
9. Step light
10. High-mounted stop light
11. Rear combination light
    — Turn signal/Stop/Tail light
    — Side marker light
12. License plate lights
13. Back-up light
14. Luggage light

Information Provided by: DEALER E-PROCESS

HEADLIGHTS

Replacing

If replacement is required, see a NISSAN dealer.

Xenon headlight bulb:

WARNING

HIGH VOLTAGE

When xenon headlights are on, they produce a high voltage. To prevent an electric shock, never attempt to modify or disassemble. Always have your xenon headlights replaced at a NISSAN dealer. For additional information, see "Headlight and turn signal switch" in the "Instruments and controls" section.

Halogen headlight bulb:

The headlight is a semi-sealed beam type which uses a replaceable headlight (halogen) bulb. If replacement is required, see a NISSAN dealer.

CAUTION

- **High pressure halogen gas is sealed inside the halogen bulb. The bulb may break if the glass envelope is scratched or the bulb is dropped.**
- **When handling the bulb, do not touch the glass envelope.**
- **Do not touch the bulb.**
- **Use the same number and wattage as originally installed:**
  Bulb no. (Wattage)
  D2S - Xenon low/high-beam
  or
  HB5 (65/55W) - Halogen low/high-beam
- **Do not leave the bulb out of the headlight reflector for a long period of time as dust, moisture and smoke may enter the headlight body and affect the performance of the headlight.**

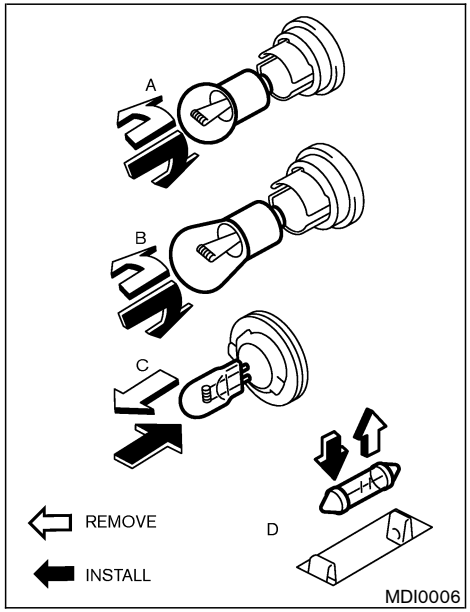
Fog may temporarily form inside the lens of the exterior lights in the rain or in a car wash. A temperature difference between the inside and the outside of the lens causes the fog. This is not a malfunction. If large drops of water collect inside the lens, contact a NISSAN dealer.

Information Provided by: DEALER E-PROCESS

EXTERIOR AND INTERIOR LIGHTS

Item	Wattage (W)	Bulb No.
Front turn signal*	21	T20
Front park light*	3.8	T10 C-2F
Front side marker light*	3.8	T10 C-2F
Front fog light (if so equipped)*	51	HB4
Rear combination light*		
Turn/Stop/Tail signal	—	LED
Side marker light	—	LED
Back-up*	16	T16
License plate light*	5	T10
High-mounted stop light*	—	LED
Ceiling light	8	
Map light	8	
Rear personal light*	8	
Step light*	2.7	161
Luggage light	8	158
Vanity mirror light	2	—

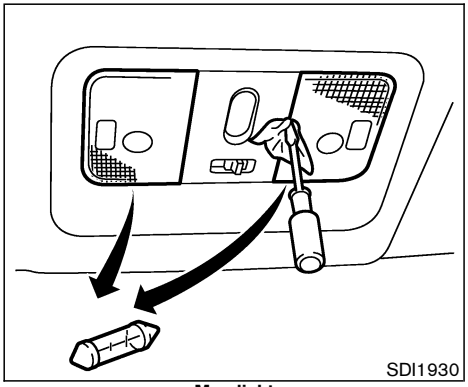
*: See a NISSAN dealer for replacement.



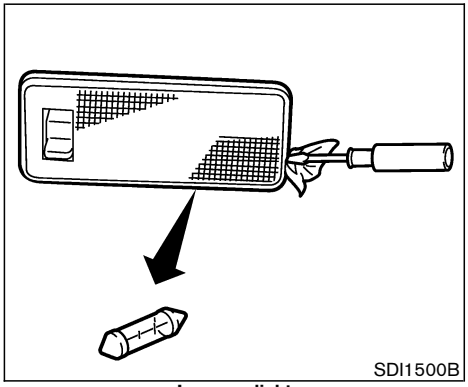
Replacement procedures

All other lights are either type A, B, C or D. When replacing a bulb, first remove the lens and/or cover.

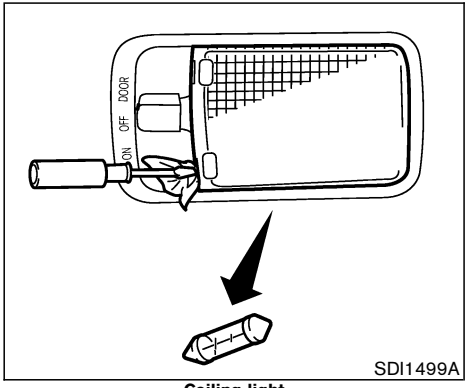
Information Provided by: DEALER E-PROCESS



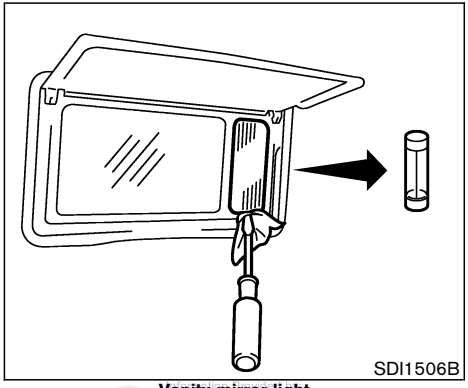
Map light



Luggage light



Ceiling light



Vanity mirror light

TIRE PRESSURE

Tire pressure monitoring system (TPMS)

This vehicle is equipped with the tire pressure monitoring system (TPMS). It monitors tire pressure of all tires except the spare. When the low tire pressure warning light is lit, one or more of your tires is significantly under-inflated. If equipped, the system also displays pressure of all tires (except the spare tire) on the display screen by sending a signal from a sensor that is installed in each wheel.

The TPMS will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). Also, this system may not detect a sudden drop in tire pressure (for example a flat tire while driving).

For more details, refer to “Low tire pressure warning light” in the “2. Instruments and controls” section, “Tire pressure information” in the “4. Display screen, heater, air conditioner and audio systems” section, “Tire pressure monitoring system (TPMS)” in the “5. Starting and driving” section, and “Flat tire” in the “6. In case of emergency” section.

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Tire inflation pressure

Check the tire pressures (including the spare) often and always prior to long distance trips. The recommended tire pressure specifications are shown on the F.M.V.S.S./C.M.V.S.S. label and/or the Tire and Loading Information label under the “Cold Tire (Inflation) Pressure” heading. The Tire and Loading Information label is affixed to the driver side center pillar. Tire pressures should be checked regularly because:

- Most tires naturally lose air over time.
- Tires can lose air suddenly when driven over potholes or other objects or if the vehicle strikes a curb while parking.

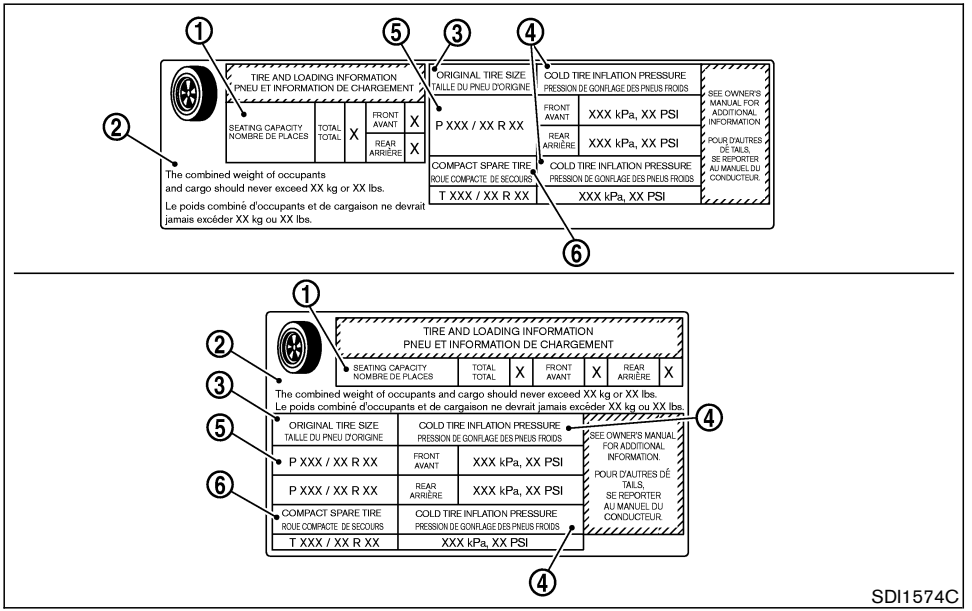
The tire pressures should be checked when the tires are cold. The tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds.

Incorrect tire pressure, including under inflation, may adversely affect tire life and vehicle handling.

⚠ WARNING

- **Improperly inflated tires can fail suddenly and cause an accident.**
- **The Gross Vehicle Weight Rating (GVWR) is located on the F.M.V.S.S./C.M.V.S.S. label. The vehicle weight capacity is indicated on the Tire and Loading Information label. Do not load your vehicle beyond this capacity. Overloading your vehicle may result in reduced tire life, unsafe operating conditions due to premature tire failure, or unfavorable handling characteristics and could also lead to a serious accident. Loading beyond the specified capacity may also result in failure of other vehicle components.**
- **Before taking a long trip, or whenever you heavily load your vehicle, use a tire pressure gauge to ensure that the tire pressures are at the specified level.**
- **Do not drive your vehicle over 85 MPH (137 km/h) unless it is equipped with high speed rated tires. Driving faster than 85 MPH (137 km/h) may result in tire failure, loss of control and possible injury.**
- **For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.**

Information Provided by: DEALER E-PROCESS



Tire and loading information label

① Seating capacity: The maximum number of occupants that can be seated in the vehicle.

② Vehicle load limit: See loading information in the “Technical and consumer information” section.

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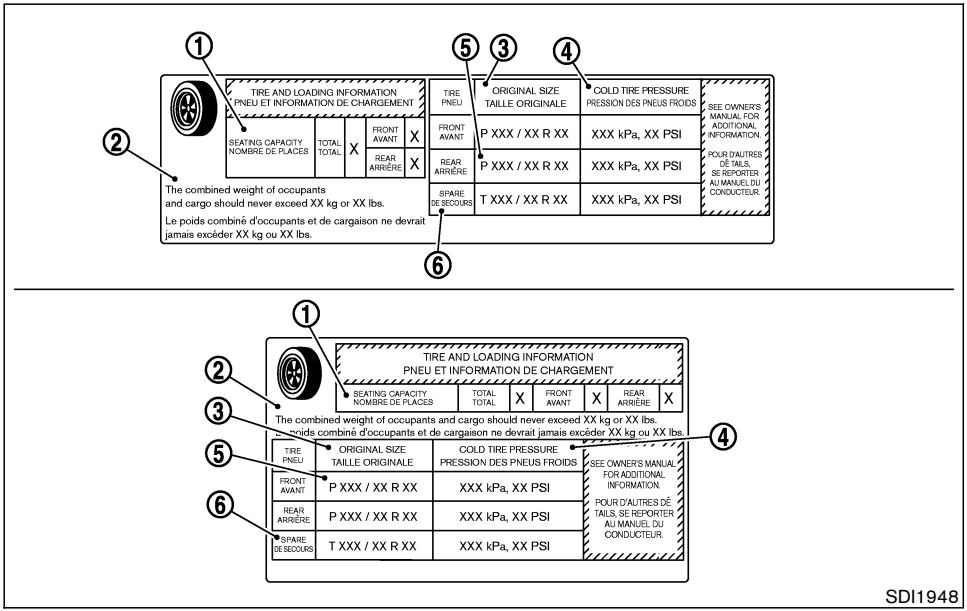

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③ Original (tire) size: The size of the tires originally installed on the vehicle at the factory.

④ Cold tire (inflation) pressure: Inflate the tires to this pressure when the tires are cold. Tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds. The recommended cold tire inflation is set by the manufacturer to provide the best balance of tire wear, vehicle handling, driveability, tire noise, etc., up to the vehicle's GVWR.

⑤ Tire size — refer to "Tire labeling" later in this section.

⑥ Spare tire size or compact spare tire size (if so equipped)

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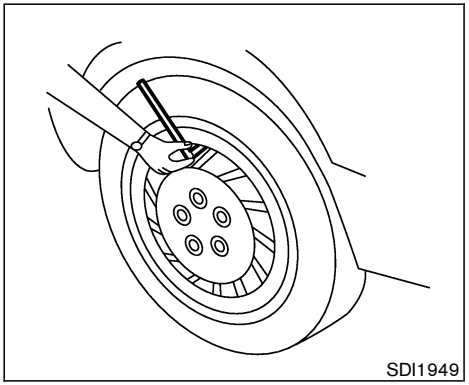

Checking the tire pressure

1. Remove the valve stem cap from the tire.
2. Press the pressure gauge squarely onto the valve stem. Do not press too hard or force the valve stem sideways, or air will escape. If the hissing sound of air escaping from the tire is heard while checking the pressure, reposition the gauge to eliminate this leakage.
3. Remove the gauge.
4. Read the tire pressure on the gauge stem and compare it to the specification shown on the Tire and Loading Information label.
5. Add air to the tire as needed. If too much air is added, press the core of the valve stem briefly with the tip of the gauge stem to release pressure. Recheck the pressure and add or release air as needed.
6. Install the valve stem cap.
7. Check the pressure of all other tires, including the spare.

	Size	Cold Tire Inflation Pressure
Front Original Tire	P235/65R18 104T	230 kPa 33 psi
Rear Original Tire	P235/65R18 104T	230 kPa 33 psi
Spare Tire	T165/90D18 107M	420 kPa 60 psi

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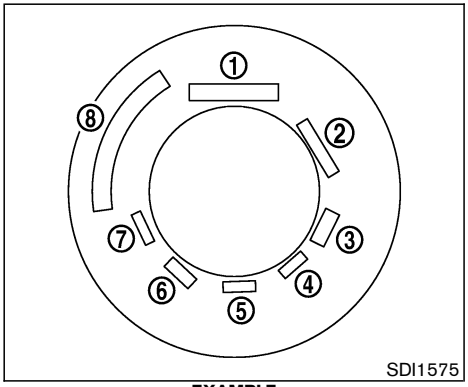
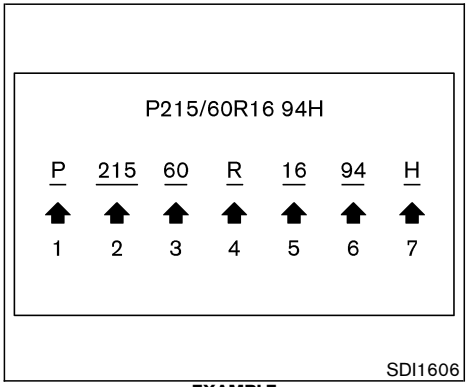


EXAMPLE

TIRE LABELING

Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification. The TIN can be used to identify the tire in case of a recall.



EXAMPLE

① Tire size (example: P215/60R16 94H)

1. P: The “P” indicates the tire is designed for passenger vehicles. (Not all tires have this information.)
2. Three-digit number (215): This number gives the width in millimeters of the tire from sidewall edge to sidewall edge.
3. Two-digit number (60): This number, known as the aspect ratio, gives the tire’s ratio of height to width.
4. R: The “R” stands for radial.
5. Two-digit number (16): This number is the wheel or rim diameter in inches.
6. Two- or three-digit number (94): This number is the tire’s load index. It is a measurement of how much weight each tire can support. You may not find this information on all tires because it is not required by law.
7. H: Tire speed rating. You should not drive the vehicle faster than the tire speed rating.

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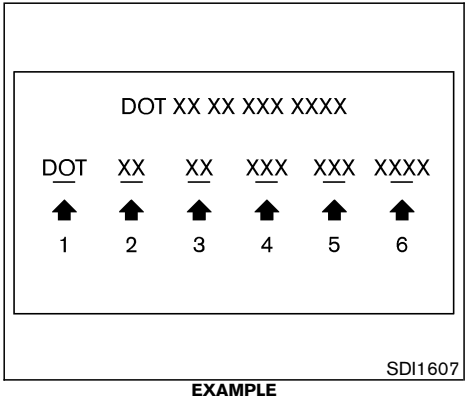

EXAMPLE

② TIN (Tire Identification Number) for new tire (example: DOT XX XX XXX XXXX)

1. DOT: Abbreviation for the “Department Of Transportation”. The symbol can be placed above, below or to the left or right of the Tire Identification Number.
2. Two-digit code: Manufacturer’s identification mark
3. Two-digit code: Tire size
4. Three-digit code: Tire type code (Optional)
5. Three-digit code: Date of Manufacture
6. Four numbers represent the week and year the tire was built. For example, the numbers 3103 means the 31st week of 2003. If these numbers are missing, then look on the other sidewall of the tire.

③ Tire ply composition and material
The number of layers or plies of rubber-coated fabric in the tire. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others.

④ Maximum permissible inflation pressure
This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure.

⑤ Maximum load rating
This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

⑥ Term of “tubeless” or “tube type”
Indicates whether the tire requires an inner tube (“tube type”) or not (“tubeless”).

⑦ The word “radial”
The word “radial” is shown if the tire has radial structure.

⑧ Manufacturer or brand name
Manufacturer or brand name is shown.

Other tire-related terminology:

In addition to the many terms that are defined throughout this section, Intended Outboard Sidewall is (1) the sidewall that contains a whitewall, bears white lettering or bears manufacturer, brand and/or model name molding that is higher or

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deeper than the same molding on the other sidewall of the tire, or (2) the outward facing sidewall of an asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle.

TYPES OF TIRES

WARNING

- **When changing or replacing tires, be sure all four tires are of the same type (for example, Summer, All Season or Snow) and construction. A NISSAN dealer may be able to help you with information about tire type, size, speed rating and availability.**
- **Replacement tires may have a lower speed rating than the factory equipped tires, and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the tire pressure monitoring system (TPMS).**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

All season tires

NISSAN specifies All Season tires on some models to provide good performance for use all year, including snowy and icy road conditions. All Season tires are identified by ALL SEASON and/or M&S on the tire sidewall. Snow tires have better snow traction than All Season tires and may be more appropriate in some areas.

Summer tires

NISSAN specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating "M&S" on the tire sidewall.

If you plan to operate your vehicle in snowy or icy conditions, NISSAN recommends the use of SNOW tires or ALL SEASON tires on all four wheels.

Snow tires

If snow tires are needed, it is necessary to select tires equivalent in size and load rating to the original equipment tires. If you do not, it can adversely affect the safety and handling of your vehicle.

Generally, snow tires will have lower speed ratings than factory equipped tires and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.

If you operate your vehicle in snowy or icy conditions, NISSAN recommends the use of snow or all season tires on all four wheels.

For additional traction on icy roads, studded tires may be used. However, some U.S. states and Canadian provinces prohibit their use. Check local, state and provincial laws before installing studded tires. Skid and traction capabilities of studded snow tires on wet or dry surfaces may be poorer than that of non-studded snow tires.

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All-wheel drive models

CAUTION

Always use tires of the same type, size, brand, construction (bias, bias-belted or radial), and tread pattern on all four wheels. Failure to do so may result in a circumference difference between tires on the front and rear axles which will cause excessive tire wear and may damage the transmission, transfer case and differential gears.

If excessive tire wear is found, it is recommended that all four tires be replaced with tires of the same size, brand, construction and tread pattern. The tire pressure and wheel alignment should also be checked and corrected as necessary. Contact a NISSAN dealer.

Tire chains must be installed only on the front wheels and not on the rear wheels.

Do not drive with tire chains on paved roads which are clear of snow. Driving with chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress.

TIRE CHAINS

Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure they are the proper size for the tires on your vehicle and are installed according to the chain manufacturer's suggestions. **Use only SAE class S chains.** Class "S" chains are used on vehicles with restricted tire to vehicle clearance. Vehicles that can use Class "S" chains are designed to meet the SAE standard minimum clearances between the tire and the closest vehicle suspension or body component required to accommodate the use of a winter traction device (tire chains or cables). The minimum clearances are determined using the factory equipped tire size. Other types may damage your vehicle. Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chain must be secured or removed to prevent the possibility of whipping action damage to the fenders or undercarriage. If possible, avoid fully loading your vehicle when using tire chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

- **Never install tire chains on a TEMPORARY USE ONLY type spare tire.**
- **Do not use the chains on dry roads.**

Tire chains must be installed only on the front wheels and not on the rear wheels.

Do not drive with tire chains on paved roads which are clear of snow. Driving with chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress.

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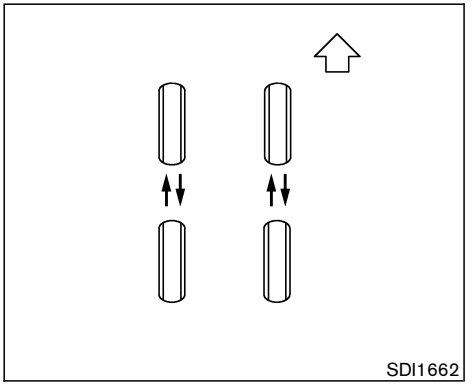

CHANGING WHEELS AND TIRES

Tire rotation

NISSAN recommends rotating the tires every 7,500 miles (12,000 km).

See “Flat tire” in the “6. In case of emergency” section of this manual for tire replacing procedures.

As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

Wheel nut tightening torque:
80 ft-lb (108 N·m)

The wheel nuts must be kept tightened to specifications at all times. It is recommended that wheel nuts be tightened to specification at each tire rotation interval.

WARNING

- **After rotating the tires, check and adjust the tire pressure.**
- **Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).**
- **Do not include the spare tire in the tire rotation.**
- **For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.**

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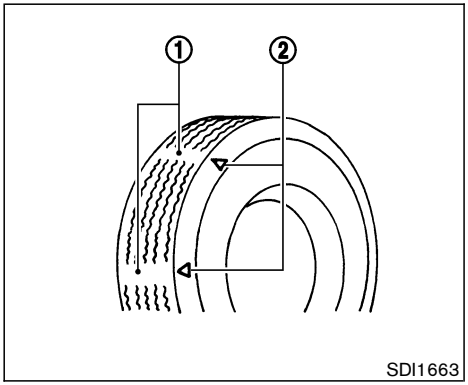

1. Wear indicator
2. Location mark

Tire wear and damage

WARNING

- **Tires should be periodically inspected for wear, cracking, bulging or objects caught in the tread. If excessive wear, cracks, bulging or deep cuts are found, the tire(s) should be replaced.**
- **The original tires have built-in tread wear indicators. When the wear indicators are visible, the tire(s) should be replaced.**
- **Tires degrade with age and use. Have tires, including the spare, over 6 years old checked by a qualified technician because some tire damage may not be obvious. Replace the tires as necessary to prevent tire failure and possible personal injury.**
- **Improper service of the spare tire may result in serious personal injury. If it is necessary to repair the spare tire, contact a NISSAN dealer.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

Replacing wheels and tires

When replacing a tire, use the same size, tread design, speed rating and load carrying capacity as originally equipped. Recommended types and sizes are shown in "Wheels and tires" in the "Technical and consumer information" section of this manual.

WARNING

- **The use of tires other than those recommended or the mixed use of tires of different brands, construction (bias, bias-belted or radial), or tread patterns can adversely affect the ride, braking, handling, ground clearance, body-to-tire clearance, tire chain clearance, speedometer calibration, headlight aim and bumper height. Some of these effects may lead to accidents and could result in serious personal injury.**

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- **If the wheels are changed for any reason, always replace with wheels which have the same off-set dimension. Wheels of a different off-set could cause premature tire wear, degrade vehicle handling characteristics and/or interference with the brake discs/drums. Such interference can lead to decreased braking efficiency and/or early brake pad/shoe wear. Refer to "Wheels and Tires" in the "Technical and consumer information" section of this manual for wheel offset dimensions.**
- **When a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute and remain on after the 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting. (For models with the low tire pressure warning system)**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS. (For models with the low tire pressure warning system)**
- **Do not install a deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.**
- **The use of retread tires is not recommended.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

Wheel balance

Unbalanced wheels may affect vehicle handling and tire life. Even with regular use, wheels can get out of balance. Therefore, they should be balanced as required.

Wheel balance service should be performed with the wheels off the vehicle. Spin balancing the wheels on the vehicle could lead to mechanical damage.

For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information booklet.

Care of wheels

- Wash the wheels when washing the vehicle to maintain their appearance.
- Clean the inner side of the wheels when the wheel is changed or the underside of the vehicle is washed.
- Do not use abrasive cleaners when washing the wheels.
- Inspect wheel rims regularly for dents or corrosion. Such damage may cause loss of pressure or poor seal at the tire bead.
- NISSAN recommends waxing the road wheel sidewalls to protect against road salt in areas where it is used during winter.

Spare tire (TEMPORARY USE ONLY (T-type) spare tire)

Observe the following precautions if the TEMPORARY USE ONLY spare tire must be used. Otherwise, your vehicle could be damaged or involved in an accident.

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WARNING

- The spare tire should be used for emergency use only. It should be replaced with the standard tire at the first opportunity to avoid possible tire or differential damage.
- Drive carefully while the TEMPORARY USE ONLY spare tire is installed. Avoid sharp turns and abrupt braking while driving.
- Periodically check spare tire inflation pressure. Always keep the pressure of the TEMPORARY USE ONLY spare tire at 60 psi (420 kPa, 4.2 bar).
- With the TEMPORARY USE ONLY spare tire installed do not drive the vehicle at speeds faster than 50 MPH (80 km/h).
- When driving on roads covered with snow or ice, the TEMPORARY USE ONLY spare tire should be used on the rear wheel and the original tire used on the front wheels (drive wheels). Use tire chains only on the front (original) tires.
- Tire tread of the TEMPORARY USE ONLY spare tire will wear at a faster rate than the standard tire. Replace the spare tire as soon as the tread wear indicators appear.
- Do not use the spare tire on other vehicles.
- Do not use more than one spare tire at the same time.
- Do not tow a trailer when the TEMPORARY USE ONLY spare tire is installed.

CAUTION

- Do not use tire chains on a TEMPORARY USE ONLY spare tire. Tire chains will not fit properly and may cause damage to the vehicle.
- Because the TEMPORARY USE ONLY spare tire is smaller than the original tire, ground clearance is reduced. To avoid damage to the vehicle, do not drive over obstacles. Also, do not drive the vehicle through an automatic car wash since it may get caught.

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9 Technical and consumer information

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CAPACITIES AND RECOMMENDED FUEL/LUBRICANTS

The following are approximate capacities. The actual refill capacities may be a little different. When refilling, follow the procedure instructed in the "8. Maintenance and do-it-yourself" section to determine the proper refill capacity.

	Capacity (Approximate)			Recommended specifications
	US measure	Imp measure	Liter	
Fuel	21-5/8 gal	18 gal	82	Unleaded gasoline with an octane rating of at least 87 AKI (RON 91)*1
Engine oil*5 Drain and refill				
With oil filter change	4-1/4 qt	3-1/2 qt	4.0	• Engine oil with API Certification Mark*2 • Viscosity SAE 5W-30
Without oil filter change	3-7/8 qt	3-1/4 qt	3.7	
Cooling system				
With reservoir	10-1/8 qt	8-1/2 qt	9.6	50% Genuine NISSAN Long Life Antifreeze/Coolant or equivalent 50% Demineralized or distilled water
Reservoir	7/8 qt	3/5 qt	0.8	
Differential gear oil	—	—	—	Genuine NISSAN Differential Oil Hypoid Super GL-5 8W-90 or API GL-5, Viscosity SAE 80W-90*3
CVT fluid	—	—	—	Genuine NISSAN CVT Fluid NS-2*4
Transfer oil	—	—	—	API GL-5, Viscosity SAE 80W-90
Power steering fluid (PSF)	Refill to the proper oil level according to the instructions in the "8. Maintenance and do-it-yourself" section.			Genuine NISSAN PSF or equivalent*6
Brake fluid				Genuine NISSAN Super Heavy Duty Brake Fluid*7 or equivalent DOT 3
Multi-purpose grease	—	—	—	NLGI No. 2 (Lithium soap base)
Air conditioning system refrigerant	—	—	—	HFC-134a (R-134a)*8
Air conditioning system lubricants	—	—	—	NISSAN A/C System Oil Type S or exact equivalent
Windshield washer fluid				Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent

*1: For additional information, see later in this paragraph for fuel recommendation.
*2: For additional information, see later in this paragraph for engine oil and oil filter recommendation.
*3: For hot climates, viscosity SAE 90 is suitable for ambient temperatures above 0°C (32°F).
*4: **Use only Genuine NISSAN CVT Fluid NS-2. Using transmission fluid other than Genuine NISSAN CVT Fluid NS-2 will damage the CVT transmission, which is not covered by the Nissan new vehicle limited warranty.**
*5: For additional information, see "Engine oil" in the "8. Maintenance and do-it-yourself" section for changing engine oil.
*6: For Canada, NISSAN Automatic Transmission Fluid (ATF), DEXRON™III/MERCON™ or equivalent ATF may also be used.
*7: Available in mainland U.S.A. through a NISSAN dealer.
*8: For additional information, see "Vehicle identification" in this section for air conditioner specification label.

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FUEL RECOMMENDATION

NISSAN recommends the use of unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96).

If unleaded premium gasoline is not available, you may use unleaded regular gasoline with an octane rating of at least 87 AKI number (Research octane number 91), but you may notice a decrease in performance.

⚠ CAUTION

- **Using a fuel other than that specified could adversely affect the emission control system, and may also affect the warranty coverage.**
- **Under no circumstances should a leaded gasoline be used, because this will damage the three-way catalyst.**
- **Do not use E-85 fuel in your vehicle. Your vehicle is not designed to run on E-85 fuel. Using E-85 fuel can damage the fuel system components and is not covered by the NISSAN vehicle limited warranty.**

Gasoline specifications

NISSAN recommends using gasoline that meets the World-Wide Fuel Charter (WWFC) specifications where it is available. Many of the automobile manufacturers developed this specification to improve the emission control system and vehicle performance. Ask your service station manager if the gasoline meets the WWFC specifications.

Reformulated gasoline

Some fuel suppliers are now producing reformulated gasolines. These gasolines are specially designed to reduce vehicle emissions. NISSAN supports efforts towards cleaner air and suggests that you use reformulated gasoline when available.

Gasoline containing oxygenates

Some fuel suppliers sell gasoline containing oxygenates such as ethanol, MTBE and methanol with or without advertising their presence. NISSAN does not recommend the use of fuels of which the oxygenate content and the fuel compatibility for a NISSAN cannot be readily determined. If in doubt, ask your service station manager.

If you use oxygenate-blend gasoline, please take the following precautions as the usage of such fuels may cause vehicle performance problems and/or fuel system damage.

- **The fuel should be unleaded and have an octane rating no lower than that recommended for unleaded gasoline.**
- **If an oxygenate-blend, excepting a methanol blend, is used, it should contain no more than 10% oxygenate. (MTBE may, however, be added up to 15%.)**
- **If a methanol blend is used, it should contain no more than 5% methanol (methyl alcohol, wood alcohol). It should also contain a suitable amount of appropriate cosolvents and corrosion inhibitors. If not properly formulated with appropriate cosolvents and corrosion inhibitors, such methanol blends may cause fuel system damage and/or vehicle performance problems. At this time, sufficient data is not available to ensure that all methanol blends are suitable for use in NISSAN vehicles.**

If any undesirable driveability problems such as

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engine stalling and hard hot starting are experienced after using oxygenate-blend fuels, immediately change to a non-oxygenate fuel or a fuel with a low blend of MTBE.

Take care not to spill gasoline during refueling. Gasoline containing oxygenates can cause paint damage.

E-85 fuel

E-85 fuel is a mixture of approximately 85% fuel ethanol and 15% unleaded gasoline. E-85 can only be used in a Flexible Fuel Vehicle (FFV). Do not use E-85 fuel in your vehicle. U.S. government regulations require fuel ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.

Aftermarket fuel additives

NISSAN does not recommend the use of any aftermarket fuel additives (for example, fuel injector cleaner, octane booster, intake valve deposit removers, etc.) which are sold commercially. Many of these additives intended for gum, varnish or deposit removal may contain active solvent or similar ingredients that can be harmful to the fuel system and engine.

Octane rating tips

Using unleaded gasoline with an octane rating lower than recommended can cause persistent, heavy spark knock. (Spark knock is a metallic rapping noise.) If severe, this can lead to engine damage. If you detect a persistent heavy spark knock even when using gasoline of the stated octane rating, or if you hear steady spark knock while holding a steady speed on level roads, have your dealer correct the condition. Failure to correct the condition is misuse of the vehicle, for which NISSAN is not responsible.

Incorrect ignition timing will result in knocking, after-run or overheating. This in turn may cause excessive fuel consumption or damage to the engine. If any of the above symptoms are encountered, have your vehicle checked at a NISSAN dealer or other competent service facility.

However, now and then you may notice light spark knock for a short time while accelerating or driving up hills. This is no cause for concern, because you get the greatest fuel benefit when there is light spark knock for a short time under heavy engine load.

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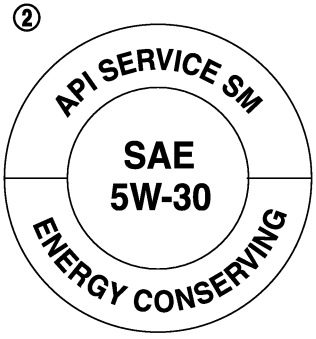

STI0500

ENGINE OIL AND OIL FILTER RECOMMENDATION

Selecting the correct oil

It is essential to choose the correct grade, quality and viscosity engine oil to ensure satisfactory engine life and performance. See “Capacities and recommended fuel/lubricants” earlier in this section. NISSAN recommends the use of an energy conserving oil in order to improve fuel economy.

Select only engine oils that meet the American Petroleum Institute (API) certification or International Lubricant Standardization and Approval Committee (ILSAC) certification and SAE viscosity standard. These oils have the API certification mark on the front of the container. Oils which do not have the specified quality label should not be used as they could cause engine damage.

Oil additives

NISSAN does not recommend the use of oil additives. The use of an oil additive is not necessary when the proper oil type is used and maintenance intervals are followed.

Oil which may contain foreign matter or has been previously used should not be used.

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Oil viscosity

The engine oil viscosity or thickness changes with temperature. Because of this, it is important that the engine oil viscosity be selected based on the temperatures at which the vehicle will be operated before the next oil change. Choosing an oil viscosity other than that recommended could cause serious engine damage.

Selecting the correct oil filter

Your new vehicle is equipped with a high-quality genuine NISSAN oil filter. When replacing, use the genuine oil filter or its equivalent for the reason described in change intervals.

Change intervals

The oil and oil filter change intervals for your engine are based on the use of the specified quality oils and filters. Oil and filter other than the specified quality, or oil and filter change intervals longer than recommended could reduce engine life. Damage to engines caused by improper maintenance or use of incorrect oil and filter quality and/or viscosity is not covered by the new NISSAN vehicle limited warranties.

Your engine was filled with a high quality engine oil when it was built. You do not have to change the oil before the first recommended change interval. Oil and filter change intervals depend

upon how you use your vehicle. Operation under the following conditions may require more frequent oil and filter changes.

- repeated short distance driving at cold outside temperatures,
- driving in dusty conditions,
- extensive idling,
- towing a trailer,
- stop and go “rush hour” traffic,
- aggressive driving.

Refer to the “NISSAN Service and Maintenance Guide” for the maintenance schedule.

AIR CONDITIONING SYSTEM REFRIGERANT AND LUBRICANT RECOMMENDATIONS

The air conditioning system in this NISSAN vehicle must be charged with the refrigerant HFC-134a (R-134a) and the lubricant, NISSAN A/C System Oil Type S or the exact equivalents.

CAUTION

The use of any other refrigerant or lubricant will cause severe damage to the air conditioning system and will require the replacement of all air conditioner system components.

The refrigerant HFC-134a (R-134a) in your NISSAN vehicle will not harm the earth’s ozone layer. Although this refrigerant does not affect the earth’s atmosphere, certain governmental regulations require the recovery and recycling of any refrigerant during automotive air conditioning system service. A NISSAN dealer has the trained technicians and equipment needed to recover and recycle your air conditioning system refrigerant.

Contact a NISSAN dealer when servicing your air conditioning system.

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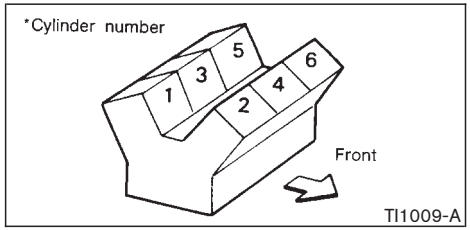
SPECIFICATIONS

ENGINE

Model		VQ35DE
Type		Gasoline, 4-cycle
Cylinder arrangement		6-cylinder, V-slanted at 60°
Bore x Stroke	in (mm)	3.760 x 3.205 (95.5 x 81.4)
Displacement	cu in (cm^3)	213.45 (3,498)
Firing order		1-2-3-4-5-6*
Idle speed	rpm	See the emission control label on the underside of the hood.
Ignition timing (B.T.D.C.)	degree/rpm	
CO percentage at idle speed	[No air] %	
Spark plug	Standard	PLFR5A-11
	Service option	PLFR4A-11 (Hot), PLFR6A-11 (Cold)
Spark plug gap (Normal)	in (mm)	0.043 (1.1)
Camshaft operation		Timing chain



The spark ignition system of this vehicle meets all requirements of the Canadian Interference-Causing Equipment Regulations.

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WHEELS AND TIRES

Road wheel	Type	Size	Offset in (mm)
	Aluminum	18 x 7-1/2JJ	1.38 (35)
Tire	Conventional	P235/65R18 104T	
	Spare	T165/90D18 107M Conventional*	
Pressure (cold)	Conventional	33 PSI (230 kPa)	
	Spare (T-type)	60 PSI (420 kPa)	

*: For Canada

DIMENSIONS AND WEIGHTS

Overall length	in (mm)	187.6 (4,767)
Overall width	in (mm)	74.0 (1,880)
Overall height without roof rack rail	in (mm)	66.5 (1,689)
Overall height with roof rack rail	in (mm)	67.3 (1,709)
Front tread	in (mm)	64.2 (1,630)
Rear tread	in (mm)	64.2 (1,630)
Wheelbase	in (mm)	111.2 (2,825)
Gross vehicle weight rating	lb (kg)	
Gross axle weight rating		See the F.M.V.S.S. certification label on the driver's side lock pillar.
Front	lb (kg)	
Rear	lb (kg)	

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WHEN TRAVELING OR REGISTERING YOUR VEHICLE IN ANOTHER COUNTRY

When planning to travel in another country, you should first find out if the fuel available is suitable for your vehicle's engine.

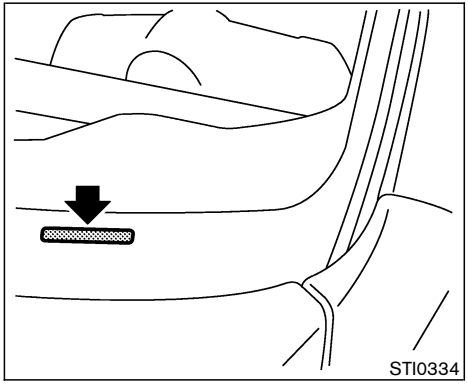
Using fuel with too low an octane rating may cause engine damage. All gasoline vehicles must be operated with unleaded engine gasoline. Therefore, avoid taking your vehicle to areas where appropriate fuel is not available.

When transferring the registration of your vehicle to another country, state, province or district, it may be necessary to modify the vehicle to meet local laws and regulations.

The laws and regulations for motor vehicle emission control and safety standards vary according to the country, state, province or district; therefore, vehicle specifications may differ.

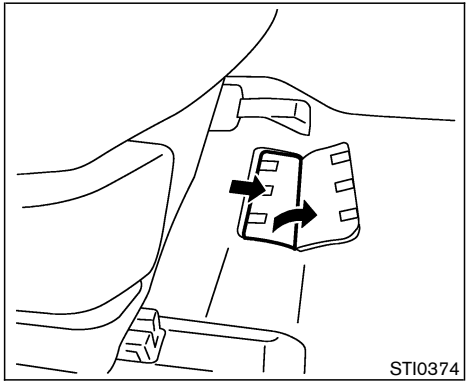
When any vehicle is to be taken into another country, state, province or district and registered, its modifications, transportation, and registration are the responsibility of the user. NISSAN is not responsible for any inconvenience that may result.

VEHICLE IDENTIFICATION



VEHICLE IDENTIFICATION NUMBER (VIN) PLATE

The vehicle identification number plate is attached as shown. This number is the identification for your vehicle and is used in the vehicle registration.



VEHICLE IDENTIFICATION NUMBER (Chassis number)

The number is stamped under the passenger's seat as shown.

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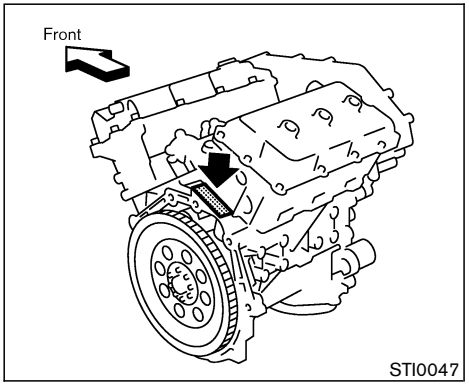
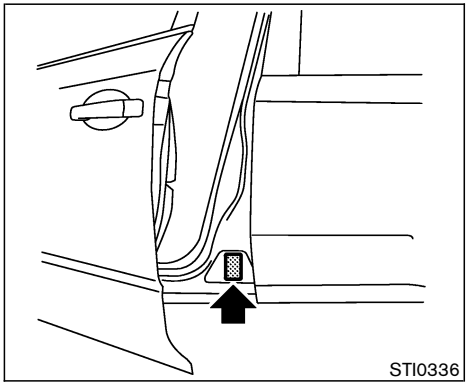


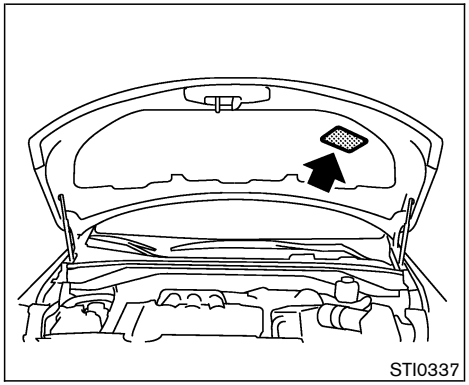
ENGINE SERIAL NUMBER

The number is stamped on the engine as shown.



F.M.V.S.S./C.M.V.S.S. CERTIFICATION LABEL

F.M.V.S.S./C.M.V.S.S. certification label is affixed as shown. This label contains valuable vehicle information, such as: Gross Vehicle Weight Ratings (GVWR), Gross Axle Weight Rating (GAWR), month and year of manufacture, Vehicle Identification Number, (VIN), etc. Review it carefully.



EMISSION CONTROL INFORMATION LABEL

The emission control information label is attached as shown.

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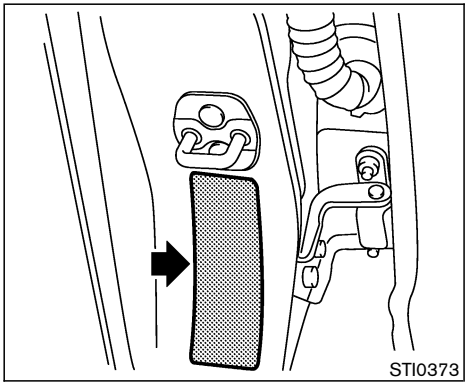
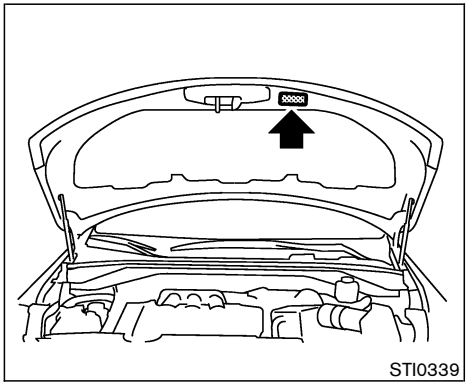


TIRE AND LOADING INFORMATION LABEL

The cold tire pressure is shown on the Tire and Loading Information label affixed to the driver's door center pillar.



AIR CONDITIONER SPECIFICATION LABEL

The air conditioner specification label is affixed inside of the hood as shown.

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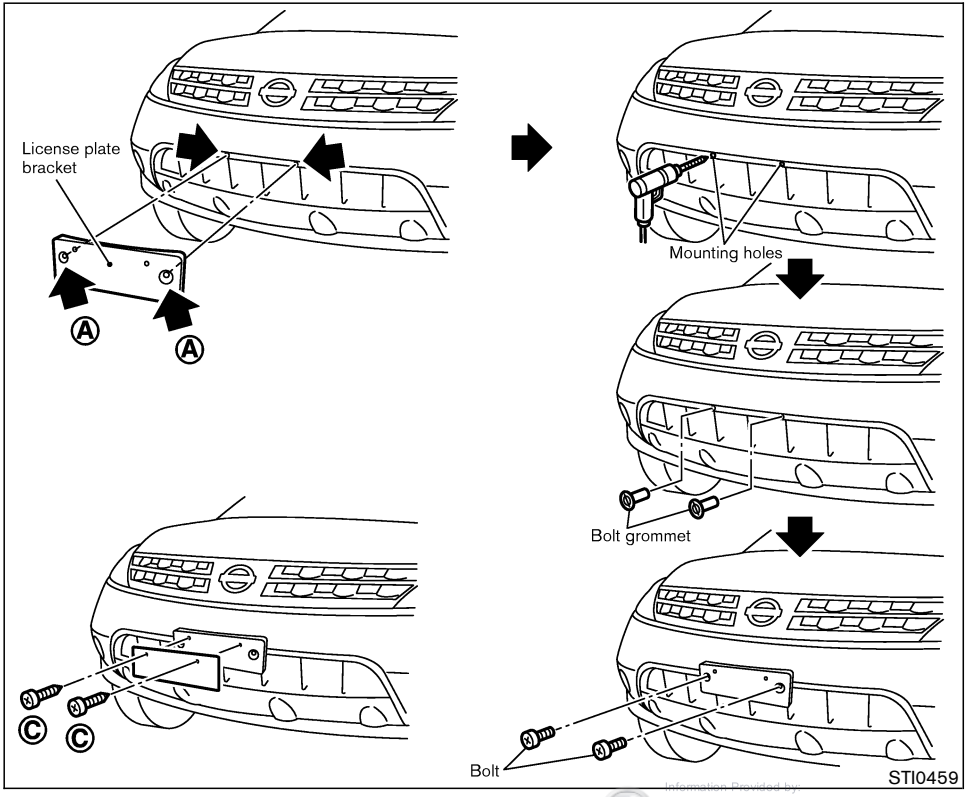
INSTALLING FRONT LICENSE PLATE



Use the following steps to mount the license plate:

Before mounting the license plate, confirm that the following parts are enclosed in the vinyl bag.

- License plate bracket
- Screw x 2
- Bolt grommet x 2
- Bolt x 2

1. Temporarily place the license plate bracket and mark the pilot hole points using holes Ⓐ.
2. Remove the license plate bracket.
3. Carefully drill two pilot holes using a 0.39 in (10 mm) drill bit at the marked locations. **(Be sure that the drill only goes through the fascia, or damage to the nut may occur.)**
4. Insert grommets into the hole on the fascia.
5. Install the license plate bracket with bolts.
6. Install the license plate with screws Ⓒ.

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VEHICLE LOADING INFORMATION

WARNING

- **It is extremely dangerous to ride in a cargo area inside a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.**
- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.**
- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

TERMS

It is important to familiarize yourself with the following terms before loading your vehicle:

- Curb Weight (actual weight of your vehicle) - vehicle weight including: standard and optional equipment, fluids, emergency tools, and spare tire assembly. This weight **does not** include passengers and cargo.
- GVW (Gross Vehicle Weight) - curb weight plus the combined weight of passengers and cargo.
- GVWR (Gross Vehicle Weight Rating) - maximum total combined weight of the unloaded vehicle, passengers, luggage, hitch, trailer tongue load and any other optional equipment. This information is located on the F.M.V.S.S./C.M.V.S.S. label.
- GAWR (Gross Axle Weight Rating) - maximum weight (load) limit specified for the front or rear axle. This information is located on the F.M.V.S.S./C.M.V.S.S. label.
- GCWR (Gross Combined Weight Rating) - maximum total weight rating of the vehicle, passengers, cargo, and trailer.
- Vehicle Capacity Weight, Load limit, Total load capacity - maximum total weight limit specified of the load (passengers and cargo) for the vehicle. This is the maximum combined weight of occupants and cargo that can be loaded into the vehicle. If the vehicle is used to tow a trailer, the trailer tongue weight must be included as part of the cargo load. This information is located on the Tire and Loading Information label.
- Cargo capacity - permissible weight of cargo, the subtracted weight of occupants from the load limit.

VEHICLE LOAD CAPACITY

Do not exceed the load limit of your vehicle shown as “The combined weight of occupants and cargo” on the Tire and Loading Information label. Do not exceed the number of occupants shown as “Seating Capacity” on the Tire and Loading Information label.

To get “the combined weight of occupants and cargo”, add the weight of all

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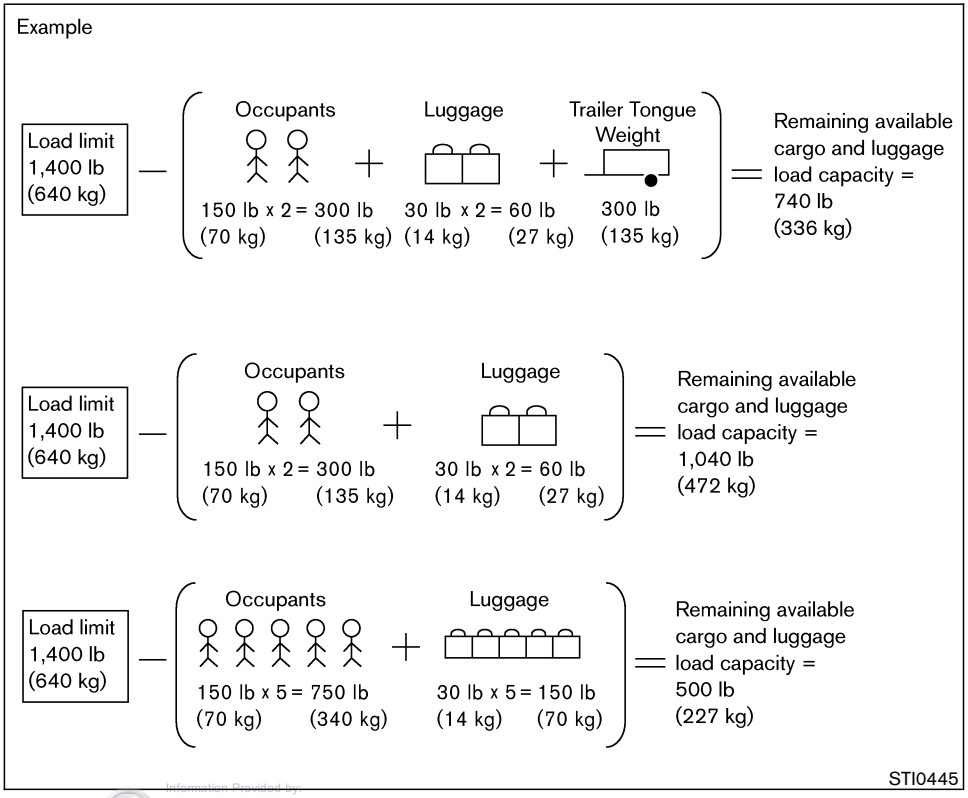
occupants, then add the total luggage weight. Examples are shown below.



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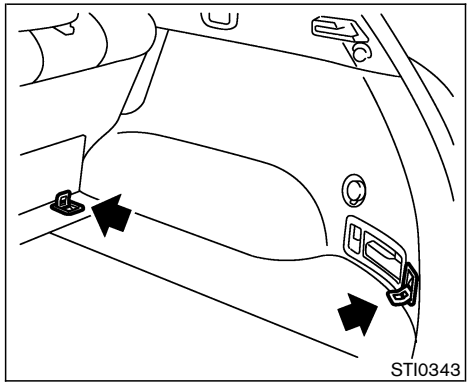
Steps for determining correct load limit

1. Locate the statement “The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs” on your vehicle’s placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the XXX amount equals 1400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400 – 750 (5 x 150) = 650 lbs.) or (640 – 340 (5 x 70) = 300 kg.)
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

Before driving a loaded vehicle, confirm that you do not exceed the Gross Vehicle Weight Rating (GVWR) or the Gross Axle Weight Rating (GAWR) for your vehicle. See “Measurement of Weights” later in this section.

Also check tires for proper inflation pressures. See the Tire and Loading Information label.



LOADING TIPS

There are tie down hooks located in the cargo area. The tie down hooks can be used to secure cargo with ropes or other types of straps.

- The GVW must not exceed GVWR or GAWR as specified on the F.M.V.S.S./C.M.V.S.S. certification label.
- Do not load the front and rear axle to the GAWR. Doing so will exceed the GVWR.

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WARNING

- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts of your vehicle can break, tire damage could occur, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury.**
- **Overloading not only can shorten the life of your vehicle and the tire, but can also cause unsafe vehicle handling and longer braking distances. This may cause a premature tire failure which could result in a serious accident and personal injury. Failures caused by overloading are not covered by the vehicle's warranty.**

PAYLOAD WEIGHT CAPACITY

The payload weight capacity is the maximum total weight of passengers, optional equipment (air conditioning, trailer hitch, etc.) and cargo that your vehicle is designed to carry.

Before driving a loaded vehicle, confirm that you do not exceed the Gross Vehicle Weight Rating (GVWR) or the Gross Axle Weight Rating (GAWR) for your vehicle. See "Vehicle loading information" earlier in this section for details.

Also check tires for proper inflation pressures. See the tire and loading information label affixed to the driver's door center pillar.

Payload Weight Capacity Unit: lb (kg)		
VQ35DE		
	2WD	AWD
US	1,050 (475)	1,050 (475)
Canada	1,070 (485)	1,070 (485)

MEASUREMENT OF WEIGHTS

Secure loose items to prevent weight shifts that could affect the balance of your vehicle. When the vehicle is loaded, drive to a scale and weigh the front and the rear wheels separately to determine axle loads. Individual axle loads should not exceed either of the gross axle weight ratings (GAWR). The total of the axle loads should not exceed the gross vehicle weight rating (GVWR). These ratings are given on the vehicle certification label. If weight ratings are exceeded, move or remove items to bring all weights below the ratings.

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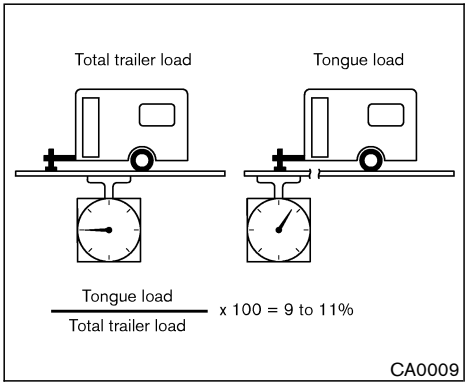

WARNING

Overloading or improper loading of a trailer and its cargo can adversely affect vehicle handling, braking and performance and may lead to accidents.

CAUTION

- **Do not tow a trailer or haul a heavy load for the first 500 miles (800 km).**

Your engine, axle or other parts could be damaged.

- **For the first 500 miles (800 km) that you tow a trailer, do not drive over 50 mph (80 km/h) and do not make starts at full throttle. This helps the engine and other parts of your vehicle wear in at the heavier loads.**

Your new vehicle was designed to be used primarily to carry passengers and cargo. Remember that towing a trailer will place additional loads on your vehicle's engine, drive train, steering, braking and other systems.

A NISSAN Towing Guide (U.S. only) is available on the website at www.nissanusa.com. This guide includes information on trailer towing capability and the special equipment required for proper towing.

MAXIMUM LOAD LIMITS

Maximum trailer loads

Never allow the total trailer load to exceed the value specified in the Towing Load/Specification Chart found later in this section. The total trailer load equals trailer weight plus its cargo weight.

- When towing a trailer load of 1,000 lbs. (454 kg) or more, trailers with a brake system MUST be used.

The maximum GCWR (Gross Combined Weight Rating) should not exceed the value specified in the following Towing Load/Specification Chart.

The GCWR equals the combined weight of the towing vehicle (including passengers and cargo) plus the total trailer load.

Towing loads greater than specified or using improper towing equipment could adversely affect vehicle handling, braking and performance. The ability of your vehicle to tow a trailer is not only related to the maximum trailer loads, but also the places you plan to tow. Tow weights appropriate for level highway driving may have to be reduced on very steep grades or in low traction situations (for example, on slippery boat ramps).

Temperature conditions also can affect towing. For example, towing a heavy trailer in high outside temperatures on graded roads can affect engine performance and cause overheating. The transmission high fluid temperature protection mode, which helps reduce the chance of transmission damage, could activate and automatically decrease engine power. Vehicle speed may decrease to 40 to 50 MPH (65 to 80 km/h) under high load. Plan your trip carefully to ac-

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count for trailer and vehicle load, weather, and road conditions.

WARNING

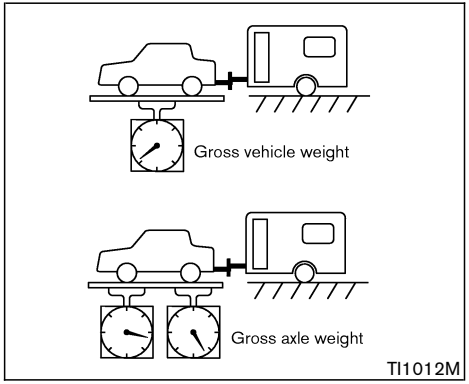
Overheating can result in reduced engine power and vehicle speed. Also, when the high temperature mode operates, vehicle speed may be gradually reduced. The reduced speed may be lower than other traffic, which could increase the chance of a collision. Be especially careful when driving. If necessary, pull to the side of the road at a safe place and allow the engine to cool or the transmission to return to normal operation.

CAUTION

Vehicle damage resulting from improper towing procedures is not covered by NISSAN warranties.

Tongue load

Keep the tongue load between 9 to 11 percent of the total trailer load within the maximum tongue load limits shown in the following Towing Load/Specifications Chart. If the tongue load becomes excessive, rearrange cargo to allow for proper tongue load.



Maximum gross vehicle weight/ maximum gross axle weight

The gross vehicle weight of the towing vehicle must not exceed the gross vehicle weight rating (GVWR) shown on the F.M.V.S.S. certification label. The gross vehicle weight equals the combined weight of the unloaded vehicle, passengers, luggage, hitch, trailer tongue load and any other optional equipment. In addition, front or rear gross axle weight must not exceed the gross axle weight rating (GAWR) shown on the F.M.V.S.S. certification label.

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TOWING LOAD/SPECIFICATION CHART

TOWING LOAD/SPECIFICATION CHART Unit: lb (kg)	
MODEL / WEIGHT	VQ35DE CVT
MAXIMUM TRAILER WEIGHT*1	3,500 (1,588)
MAXIMUM TONGUE LOAD	350 (159)
GROSS COMBINED WEIGHT RATING	8,100 (3,674)
RECOMMENDED EQUIPMENT*2	Sway Control Device (SCD)

*1: All towing above 1,000 lb (454 kg) requires the use of trailer brakes. NISSAN recommends the use of a tandem axle trailer whenever towing above 3,000 lb (1,361 kg).

*2: A sway control device is recommended for all towing above 2,000 lb (907 kg). Sway control devices are not offered by NISSAN. See a professional trailer/hitch outlet for a properly designed sway control device for your trailer.

TOWING SAFETY

Trailer hitch

Choose a proper hitch for your vehicle and trailer. Make sure the trailer hitch is securely attached to the vehicle, to help avoid personal injury or property damage due to sway caused by crosswinds, rough road surfaces or passing trucks.

Hitch ball

Choose a hitch ball of the proper size and weight rating for your trailer:

- The required hitch ball size is stamped on most trailer couplers. Most hitch balls also have the size printed on top of the ball.
- Choose the proper class hitch ball based on the trailer weight.
- The diameter of the threaded shank of the hitch ball must be matched to the ball mount hole diameter. The hitch ball shank should be no more than 1/16″ smaller than the hole in the ball mount.
- The threaded shank of the hitch ball must be long enough to be properly secured to the ball mount. There should be at least 2 threads showing beyond the lock washer and nut.

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Class I hitch

Class I trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers of a maximum weight of 2,000 lb (909 kg).

Class II hitch

Class II trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers of a maximum weight of 3,500 lb (1,510 kg).

⚠ CAUTION

- **Special hitches which include frame reinforcements are required for towing above 2,000 lb (907 kg). Suitable genuine NISSAN hitches for pickup trucks and sport utility vehicles are available at a NISSAN dealer.**
- **Do not use axle-mounted hitches.**
- **The hitch should not be attached to or affect the operation of the impact-absorbing bumper.**
- **Do not modify the vehicle exhaust system, brake system, etc. to install a trailer hitch.**
- **After the hitch is removed, seal the bolt holes to prevent exhaust fumes, water or dust from entering the passenger compartment.**
- **Regularly check that all trailer hitch mounting bolts are securely mounted.**
- **To reduce the possibility of additional damage if your vehicle is struck from the rear, where practical, remove the hitch and/or receiver when not in use.**

Tire pressures

- When towing a trailer, inflate the vehicle tires to the recommended cold tire pressure indicated on the Tire and Loading Information label.
- Trailer tire condition, size, load rating and proper inflation pressure should be in accordance with the trailer and tire manufacturers' specifications.

Safety chain

Always use a suitable chains between your vehicle and the trailer. The safety chains should be crossed and should be attached to the hitch, not to the vehicle bumper or axle. Be sure to leave enough slack in the chain to permit turning corners.

Trailer lights

⚠ CAUTION

When splicing into the vehicle electrical system, a commercially available power-type module/converter must be used to provide power for all trailer lighting. This unit uses the vehicle battery as a direct power source for all trailer lights while using the vehicle tail light, stoplight and turn signal circuits as a signal source. The module/converter must draw no more than 15 milliamps from the stop and tail lamp circuits. Using a module/converter that exceeds these power requirements may damage the vehicle's electrical system. See a reputable trailer dealer to obtain

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the proper equipment and to have it installed.

Trailer lights should comply with federal and/or local regulations. For assistance in hooking up trailer lights, contact a NISSAN dealer or reputable trailer dealer.

Trailer brakes

If your trailer is equipped with a braking system, make sure it conforms to federal and/or local regulations and that it is properly installed.

WARNING

Never connect a trailer brake system directly to the vehicle brake system.

Pre-towing tips

- Be certain your vehicle maintains a level position when a loaded and/or unloaded trailer is hitched. Do not drive the vehicle if it has an abnormal nose-up or nose-down condition; check for improper tongue load, overload, worn suspension or other possible causes of either condition.
- Always secure items in the trailer to prevent load shifts while driving.
- Load the trailer so approximately 60% of the trailer load is in the front half and 40% is in the back half.
- Check your hitch, trailer tire pressure, vehicle tire pressure, trailer light operation, and trailer wheel lug nuts every time you attach a trailer to the vehicle.
- Be certain your rearview mirrors conform to all federal, state or local regulations. If not, install any mirrors required for towing before driving the vehicle.

Trailer towing tips

In order to gain skill and an understanding of the vehicle's behavior, you should practice turning, stopping and backing up in an area which is free from traffic. Steering stability, and braking performance will be somewhat different than under normal driving conditions.

- Always secure items in the trailer to prevent load shift while driving.
- Avoid abrupt starts, acceleration or stops.
- Avoid sharp turns or lane changes.
- Always drive your vehicle at a moderate speed. Some states or provinces have specific speed limits for vehicles that are towing trailers. Obey the local speed limits.
- When backing up, hold the bottom of the steering wheel with one hand. Move your hand in the direction in which you want the trailer to go. Make small corrections and back up slowly. If possible, have someone guide you when you are backing up.
- Always block the wheels on both vehicle and trailer when parking. Parking on a slope is not recommended; however, if you must do so, first block the wheels and apply the parking brake, and then move the selector lever into the P (Park) position. If you move the selector lever to the P (Park) position before blocking the wheels and applying the parking brake, transmission damage could occur.
- When going down a hill, shift into a lower gear and use the engine braking effect. When going up a long grade, downshift the transmission to a lower gear and reduce speed to reduce chances of engine overloading and/or overheating.
- If the engine coolant rises to an extremely high temperature when the air conditioning system is on, turn off the air conditioner. Coolant heat can be additionally vented by opening the windows, switching the fan control to high and setting the temperature con-

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trol to the HOT position.

- If the transmission fluid rises to an extremely high temperature, a high fluid temperature protection mode may operate. See page 5-16 for details. If necessary, pull to the side of the road at a safe place and let the transmission cool before continuing.
- Trailer towing requires more fuel than normal circumstances.
- Avoid towing a trailer for the first 500 miles (805 km).
- Have your vehicle serviced more often than at intervals specified in the recommended maintenance schedule.
- When making a turn, your trailer wheels will be closer to the inside of the turn than your vehicle wheels. To compensate for this, make a larger than normal turning radius during the turn.
- Crosswinds and rough roads will adversely affect vehicle/trailer handling, possibly causing vehicle sway. When being passed by larger vehicles, be prepared for possible changes in crosswinds that could affect vehicle handling. If swaying does occur, firmly grip the steering wheel, steer straight ahead, and immediately (but gradually) reduce vehicle speed. This combination will help stabilize the vehicle. Never increase speed.
- Be careful when passing other vehicles. Passing while towing a trailer requires considerably more distance than normal passing. Remember the length of the trailer must also pass the other vehicle before you can safely change lanes.
- Avoid holding the brake pedal down too long or too frequently. This could cause the brakes to overheat, resulting in reduced braking efficiency.
- Increase your following distance to allow for greater stopping distances while towing a trailer. Anticipate stops and brake gradually.
- Do not use cruise control while towing a trailer.
- Check your hitch, trailer wiring harness connections, and trailer wheel lug nuts after 50 miles (80 km) of travel and at every break.
- When stopped in traffic for long periods of time in hot weather, put the vehicle in the P (Park) position.

FLAT TOWING

Towing your vehicle with all four wheels on the ground is sometimes called flat towing. This method is sometimes used when towing a vehicle behind a recreational vehicle, such as a motor home.

CAUTION

- **Failure to follow these guidelines can result in severe transmission damage.**
- **Whenever flat towing your vehicle, always tow forward, never backward.**
- **DO NOT tow any continuously variable transmission vehicle with all four wheels on the ground (flat towing). Doing so WILL DAMAGE internal transmission parts due to lack of transmission lubrication.**
- **For emergency towing procedures refer to “Towing recommended by NISSAN” in the “6. In case of emergency” section of this manual.**

Continuously variable transmission

To tow a vehicle equipped with a continuously variable transmission, an appropriate vehicle dolly **MUST** be placed under the towed vehicle’s drive wheels. **Always** follow the dolly

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manufacturer's recommendations when using their product.

UNIFORM TIRE QUALITY GRADING

DOT (Department Of Transportation) Quality Grades: All passenger car tires must conform to federal safety requirements in addition to these grades.

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

Treadwear 200 Traction AA Temperature A

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1 1/2) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction AA, A, B and C

The traction grades, from highest to lowest, are AA, A, B, and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

WARNING

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature A, B and C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

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WARNING

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, or excessive loading, either separately or in combination, can cause heat build-up and possible tire failure.

EMISSION CONTROL SYSTEM WARRANTY

Your NISSAN is covered by the following emission warranties.

For US:

- Emission Defects Warranty
- Emissions Performance Warranty (See Warranty Information Booklet for details)

For Canada:

Emission Control System Warranty

Details of these warranties may be found with other vehicle warranties in your Warranty Information Booklet that comes with your NISSAN vehicle. If you did not receive a Warranty Information Booklet or it has become lost, you may obtain a replacement by writing to:

- Nissan North America, Inc.
  Consumer Affairs Department
  P.O. Box 685003
  Franklin, TN 37068-5003
- Nissan Canada Inc.
  5290 Orbitor Drive
  Mississauga, Ontario,
  L4W 4Z5

REPORTING SAFETY DEFECTS (US only)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying NISSAN.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or NISSAN.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236. (TTY: 1-800-424-9153); go to http://www.safercar.gov; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington, DC 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

You may notify NISSAN by contacting our Consumer Affairs Department, toll-

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free, at 1-800-NISSAN-1 (1-800-647-7261).

READINESS FOR INSPECTION/ MAINTENANCE (I/M) TEST (US only)

WARNING

A vehicle equipped with AWD (All-Wheel Drive) should never be tested using a two wheel dynamometer, similar to the dynamometers used by some states for emissions testing, or similar equipment. Make sure you inform the test facility personnel that your vehicle is an AWD equipped vehicle before it is placed on a dynamometer. Failure to do so may result in transmission damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.

Due to legal requirements in some states/ areas, your vehicle may be required to be in what is called the “ready condition” for an Inspection/Maintenance (I/M) test of the emission control system.

The vehicle is set to the “ready condition” when it is driven through certain driving patterns. Usually, the “ready condition” can be obtained by ordinary usage of the vehicle.

If a powertrain system component is repaired or the battery is disconnected, the vehicle may be reset to a not “ready condition”. Before taking the I/M test, check the vehicle’s inspection/ maintenance test readiness condition. Turn the ignition switch ON without starting the engine. If the Malfunction Indicator Light (MIL) comes on steady for 20 seconds and then blinks for 10 seconds, the I/M test condition is “not ready”. If the MIL does not blink after 20 seconds, the I/M test condition is “ready”. If the MIL indicates the vehicle is in a “not ready” condition, drive the vehicle through the following pattern to set the vehicle to the ready condition. If you cannot or do not want to perform the driving pattern, a NISSAN dealer can conduct it for you.

WARNING

Always drive the vehicle in a safe and prudent manner according to traffic conditions and obey all traffic laws.

1. Start the engine. Allow the engine to idle until the engine coolant temperature gauge needle points between the C and H (normal operating temperature).
2. Accelerate the vehicle to 55 MPH (88 km/h), then quickly release the accelerator pedal

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completely and keep it released for at least 10 seconds.

3. Quickly depress the accelerator pedal for a moment, then drive the vehicle at a speed of 53 to 60 MPH (86 to 96 km/h) for at least 9 minutes.
4. Stop the vehicle. Leave the engine running.
5. Accelerate the vehicle to 35 MPH (55 km/h) and maintain the speed for 20 seconds.
6. Repeat steps 4 and 5 at least 10 times.
7. Accelerate the vehicle to 55 MPH (88 km/h) and maintain the speed for at least 3 minutes.
8. Stop the vehicle. Place the transmission selector lever in the “P” or “N” position.
9. Turn the engine off.
10. Repeat steps 1 through 8 at least one more time.

If step 1 through 7 is interrupted, repeat the preceding step. Any safe driving mode is acceptable between steps. Do not stop the engine until step 7 is completed.

EVENT DATA RECORDERS

Your vehicle is equipped with a variety of computers that monitor and control a number of systems to optimize performance and help service technicians with diagnosis and repair. Some of the computers monitor emission control systems, braking systems, engine systems, transmission systems, tire pressure systems and air bag systems. Some data about vehicle operation may be stored in the computers for use during servicing. Other data may be stored if a crash event occurs. For example, vehicle speed, brake application, steering angle, air bag readiness, air bag performance and seat belt use by the driver or passenger may be recorded. These types of systems are sometimes called Event Data Recorders.

Special equipment can be used to access the electronic data that may be stored in the vehicle’s computers (sounds are not recorded). NISSAN and NISSAN dealers have equipment to access some of this data; others may also have this equipment. The data may be retrieved during routine vehicle servicing or for special research. It might also be accessed with the consent of the vehicle owner or lessee, in response to a request by law enforcement, or as otherwise required or permitted by law.

OWNER’S MANUAL/SERVICE MANUAL ORDER INFORMATION

A genuine NISSAN Service Manual is the best source of service and repair information for your vehicle. Filled with wiring diagrams, illustrations and step-by-step diagnostic and adjustment procedures, this manual is the same one used by the factory trained technicians working at authorized NISSAN dealerships. Also available are genuine NISSAN Owner’s Manuals, and genuine NISSAN Service and Owner’s Manuals for older NISSAN models.

In the USA:

For current pricing and availability of genuine **NISSAN Service Manuals** for the 2000 model year and later, contact:

Tweddle Litho Company
1-800-450-9491
www.nissan-techinfo.com

For current pricing and availability of genuine **NISSAN Service Manuals** for the 1999 model year and prior, see a NISSAN dealer, or contact:

Resolve Corporation
20770 Westwood Dr.
Strongsville OH 44136
1-800-247-5321

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For current pricing and availability of genuine **NISSAN Owner's Manuals** for this model year and prior, see a NISSAN dealer, or contact:

Resolve Corporation
20770 Westwood Dr.
Strongsville OH 44136
1-800-247-5321

In Canada:

To purchase a copy of a genuine NISSAN Service Manual or Owner's Manual please contact your nearest NISSAN dealer. For the phone number and location of a NISSAN Dealer in your area call the NISSAN Satisfaction Center at 1-800-387-0122 and a bilingual NISSAN representative will assist you.

Also available are Genuine NISSAN Service and Owner's Manuals for older NISSAN models.

IN THE EVENT OF A COLLISION

Unfortunately, accidents do occur. In this unlikely event, there is some important information you should know. Many insurance companies routinely authorize the use of non-genuine collision parts in order to cut costs, among other reasons.

Insist on the use of Genuine NISSAN Collision Parts!

If you want your vehicle to be restored using parts made to NISSAN's original exacting specifications — if you want to help it to last and hold its resale value, the solution is simple. **Tell your insurance agent and your repair shop to only use Genuine NISSAN Collision Parts.** NISSAN does not warrant non-NISSAN parts, nor does NISSAN's warranty apply to damage caused by a non-genuine part.

Using Genuine NISSAN Parts can help protect your personal safety, preserve your warranty protection and maintain the resale value of your vehicle. And if your vehicle was leased, using Genuine NISSAN Parts may prevent or limit unnecessary excess wear and tear expenses at the end of your lease.

NISSAN designs its hoods with crumple zones to minimize the risk that the hood will penetrate the windshield of your vehicle in an accident. Non-genuine (imitation) parts may not provide such built in safeguards. Also, non-genuine parts often show premature wear, rust and corrosion.

Why should you take a chance?

In over 40 states, the law says you must be advised if non-genuine parts are used to repair your vehicle. And some states have enacted laws that restrict insurance companies from authorizing the use of non-genuine collision parts during the new vehicle warranty. These laws help protect you, so you can take action to protect yourself.

It's your right!

If you should need further information visit us at:

www.nissanusa.com (for U.S. customers) or **www.nissan.ca** (for Canadian customers).

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GAS STATION INFORMATION

FUEL RECOMMENDATION:

NISSAN recommends the use of unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96).

If unleaded premium gasoline is not available, you may use unleaded regular gasoline with an octane rating of at least 87 AKI number (Research octane number 91), but you may notice a decrease in performance.

CAUTION

- **Using a fuel other than that specified could adversely affect the emission control system, and may also affect the warranty coverage.**
- **Under no circumstances should a leaded gasoline be used, since this will damage the three-way catalyst.**
- **Do not use E-85 fuel in your vehicle. Your vehicle is not designed to run on E-85 fuel. Using E-85 fuel can damage the fuel system components and is not covered by the NISSAN vehicle limited warranty.**

For additional information, see “Capacities and recommended fuel/lubricants” in the “9. Technical and consumer information” section.

ENGINE OIL RECOMMENDATION:

- Engine oil with API Certification Mark
- Viscosity SAE 5W-30

See “Capacities and recommended fuel/lubricants” in the “9. Technical and consumer information” section for engine oil and oil filter recommendation.

COLD TIRE PRESSURES:

See Tire and Loading Information label affixed to the inside of the driver side center pillar.

NEW VEHICLE BREAK-IN PROCEDURES RECOMMENDATION:

During the first 1,200 miles (2,000 km) of vehicle use, follow the recommendations outlined in the “Break-in schedule” Information found in the “5. Starting and driving” section of this Owner’s Manual.

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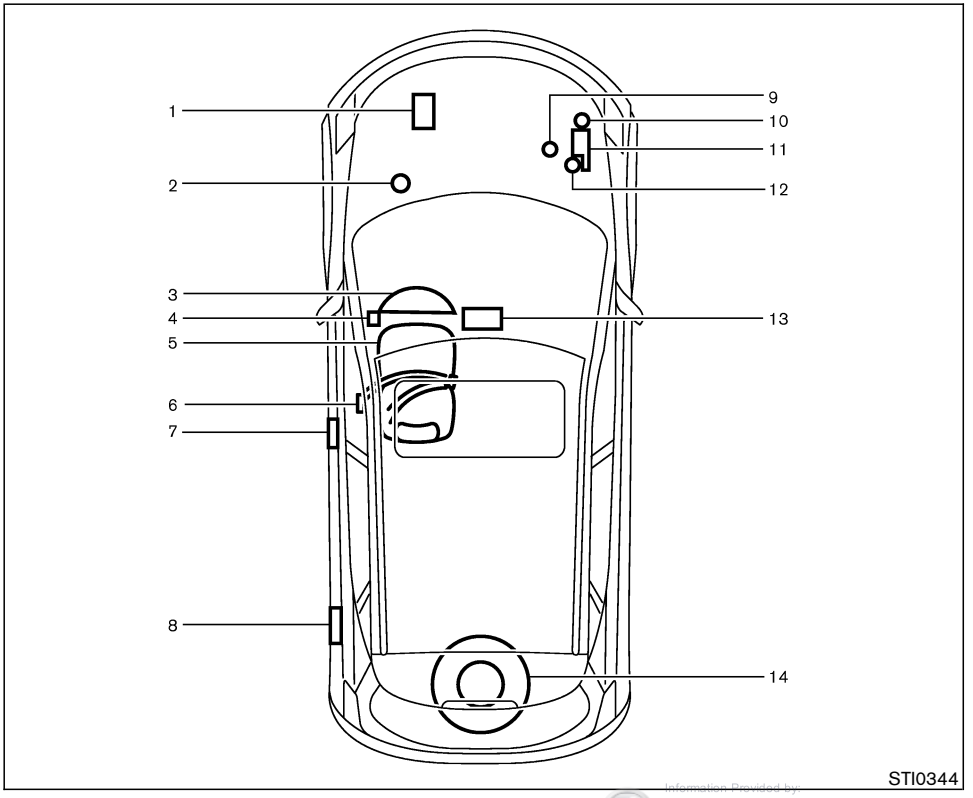

QUICK REFERENCE

1. Battery (P.8-14)
2. Brake fluid (P.8-13)
3. Meters and gauges (P.2-3)
4. Hood release (P.3-24)
5. Seat (P.1-2)
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7. Door lock/key (P.3-3)
8. Fuel (P.3-26, P.9-3)
9. Engine oil (P.8-9)
10. Windshield washer fluid (P.8-14)
11. Engine coolant (P.8-8)
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    Heater and air conditioner (P.4-23)
14. Spare tire (P.6-2, P.8-40)

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